



2013
INTERNATIONAL
STUDBOOK for the
KORI BUSTARD
(Ardeotis kori)



World Association of Zoos
and Aquariums | **WAZA**
United for Conservation

International Studbook Keeper: Sara Hallager
Smithsonian's National Zoological Park, Washington DC, USA

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Smithsonian
National Zoological Park

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STUDBOOK DISCLAIMER

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INTRODUCTION

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Current Status of the Population in Captivity

The data reported in this studbook are current through March 15 2013. As of that date, the historical population was 284.334.117 (735) animals and the living population was 37.48.0 (85) animals in 32 institutions. This number includes:

- 53 (25.28.0) birds in 20 institutions in United States and Mexico. This population is managed as a Species Survival Plan (SSP) under the auspices of AZA (Association of Zoos and Aquariums)
- 3 (1.2) birds in 2 institutions in the African region
- 13 (3.10) birds in 6 institutions in the European region
- 16 birds (8.8) in 4 institutions in the Middle East region

Current status of the wild population

Despite popular references that list the kori bustard *Ardeotis kori* as "common and abundant", no surveys have been conducted to determine the species population status in nature. Due to a complex combination of poorly understood factors, kori bustards are declining throughout their natural range in eastern and southern Africa. Furthermore, recent reports have noted that kori bustard numbers have declined markedly as revealed by the complete absence of birds from areas where they were previously and commonly found. Reasons for species decline include bush encroachment, illegal hunting, a low tolerance of human activity, an inherently low reproductive rate and reduced breeding in drought years. Kori bustards are now listed as 'vulnerable' in South Africa by the *Red Data Book of Birds of South Africa, Lesotho and Swaziland*. Recent population surveys in Botswana indicate that the species is rapidly declining. Because there will continue to be inevitable human population increase and habitat loss in Africa, kori bustard populations can be expected to decline further. In addition to lack of information on animal numbers in the wild, very little is known about species movements or migratory patterns, general biology or ecology.

IUCN Red List of Threatened Species

Population:

The global population size has not been quantified, but the species is reported to be still common where undisturbed (del Hoyo et al. 1996).

Population Trend:

↓ Decreasing

BirdLife International 2012. *Ardeotis kori*. In: IUCN 2012. IUCN Red List of Threatened Species. Version 2012.2. <www.iucnredlist.org>. Downloaded on **25 March 2013**.

Zoos that contributed data to the current population

The following zoos contributed to the 2013 studbook (by ISIS mnemonic): AL AIN, ATLANTA, AUDUBON, BIRMINGHAM, CAMBRON, COLO SPRG, DALLAS, DENVER, DUISBURG, FORTWORTH, FRANKLINP, JACKSONVL, JOHANSBRG, KANSASCTY, KREFELD, MAKTOUM, METROZOO, NZP-WASH, NURNBERG, PALM DES, PHOENIX, PUEBLA, SAFA WILD, SD-WAP, SEDGWICK, TOLEDO, TUCSON, UMGENI PK, WACO, WALSRODE

Zoos that did not contribute data to the current population

The following zoos did not contribute to the 2013 studbook (by ISIS mnemonic): SCHMIDING, NARC, ROMA

Acknowledgments

Thank you to the Smithsonian National Zoological Park for supporting the North American Studbook for kori bustards since 1993 and the International Studbook for kori bustards since 1996. Kori bustard chick photos: hatch – 6 months-- photo credit Meghan Murphy, Smithsonian National Zoological Park.

History of the Studbook

The formation of the North American Regional Studbook for kori bustards was approved by WCMC (Wildlife Conservation and Management Committee) in 1993. WCMC operates under AZA (Association of Zoos and Aquariums). The conversion of this studbook to an International level was approved initially by WCMC (Wildlife Conservation and Management Committee) in December 1995, and finally by the World Conservation Union/Species Survival Commission (IUCN/SSC) and the International Union of Directors of Zoological Gardens- the World Zoo Organization (IUDZG-WZO) in May 1996.

Captive born offspring from wild caught birds, of which the capture location for both parents is known, have a subspecies designation as well. Hatch dates for wild caught birds are estimated to the year, unless institutions have provided information otherwise. The hatch date for wild caught birds is based on the year the bird arrived in a facility. It was assumed that young birds (1-2 years) were captured for institutions. The assumption was also made that the dealer involved did not hold the bird for an extended period of time. Thus, the hatch date for wild caught birds is generally one year before the bird was captured, unless a facility has provided information to the contrary. Dates listed for transfers to dealers are also estimated. The assumption was made that a lack of long term holding facilities in the place of capture led to the dealer not holding the bird for an extended period of time. Thus, dates for transfers from dealers to institutions are generally the same year the bird arrived into a particular facility. The abbreviation MULT is used when there is more than one possible dam or sire.

STUDBOOK FORMAT

The Kori Bustard Studbook uses the Single Population Animal Record Keeping System (SPARKS) program, version 1.54

STUD #: Bird's permanent studbook number. Each institution should enter the studbook number into ARKS for all animals that they have held.

SEX: M= male F= female U= unknown

HATCH DATE: Bird's hatch date. A tilde mark '~' before the date indicates an approximate date. '?' indicates that the hatch date is unknown.

SIRE and DAM: Studbook numbers for the bird's sire and dam. 'Unk' indicates that either or both are unknown. 'Mult' indicates that there are several possible sires and/or dams.

LOCATION: The facility that has acquired the bird. An alphabetical listing of current holding locations as well as all historic holding sites including addresses is included at the end of the studbook. If a bird is no longer traceable, 'ltf' (lost to follow up) will appear to the right of the last known location.

DATE: The date on which the bird arrived or left a facility. A tilde '~' mark indicates that the arrival date is approximate. 'Unk' indicates that the date is unknown.

LOCAL ID: The facilities local identification number (often the ISIS number as well).

EVENT: Capture, Birth, Transfer (physical move with corresponding ownership change), Loan (physical move with no ownership change), Death.

REARING: Indicates whether the bird was parent or handreared, or if rearing method is unknown.

NATURAL HISTORY

Natural History Information is taken from: AZA Gruiformes TAG 2009. Kori Bustard (Ardeotis kori) Care Manual. Association of Zoos and Aquariums, Silver Spring, MD. pp.113.

PDF copies of this manual are available upon request from Sara Hallager, hallagers@si.edu

Natural History: Kori bustards are large, terrestrial, omnivorous birds that inhabit open plains and semi-desert areas within their natural habitats (Bailey et al. 1997a). Kori bustards are indigenous to the grasslands and lightly wooded savannas of southern and eastern Africa (Hallager and Boylan 2004). *A. k. kori* can be found in Botswana, Zimbabwe, Namibia, southern Angola, South Africa and Mozambique (Johnsgard 1991). In eastern Africa, *A. k. struthiunculus* can be found in Ethiopia, Uganda, Sudan, Kenya, and Tanzania (del Hoyo et al. 1996). Natural predators of kori bustards in these environments include black-backed jackal (*Canis mesomelas*), spotted hyena (*Crocuta crocuta*), martial eagle (*Polemaetus bellicosus*), tawny eagle (*Aquila rapax*), Verreaux's eagle (*Aquila verreauxii*), leopard (*Panthera pardus*), lion (*Panthera leo*), and caracal (*Caracal caracal*) (Hallager and Boylan 2004).

Kori bustards are omnivorous, and have been observed consuming flowers, leaves, seeds, fruits, pods, acacia gum, insect prey (e.g., Hymenoptera, Orthoptera, Coleoptera, Lepidoptera), and non-insect prey (e.g., Chilopoda, Diplopoda, Annelida, and Reptilia) (Mwangi 1988; Osborne 1998). When drinking from water sources, kori bustards use an unusual sucking action (Hallager 1994), which may be an adaptation to arid climates where water can be limited (Hallager and Boylan 2004).

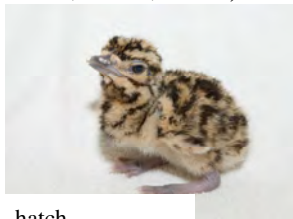
The daily activity of wild kori bustards involves periods of activity in the morning and evening (0900 and 1700), with birds awaking 30 minutes before sunrise to begin feeding, and periods of rest during the heat of the day (1130-1530) (Mwangi and Karanja 1993; Osborne 1998). Preening and dustbathing were observed to occur most frequently during the middle of the day (Mwangi 1988). During the breeding season, males also spend time performing courtship displays during the early morning and late afternoon/evening periods (Hallager and Boylan 2004). Kori bustards spend much of their time on the ground, generally moving about in a slow walk; running and flying are performed to escape from danger (Mwangi 1988).

In the wild, kori bustards have a lek-like breeding system, where males gather either singly or in loose lek-like formations during the breeding season and perform "balloon" displays to attract females (Hallager and Boylan 2004). During a male's display, the esophagus can be inflated up to four times its normal size, and with the neck expanded, the tail and wing feathers pointed downward, and the crest erected, the male emits a low-pitched six-note booming vocalization as he snaps his bill open and shut (Hallager and Boylan 2004).

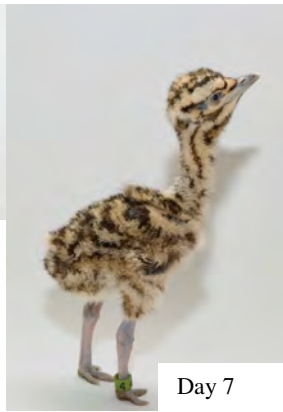


Prior to copulation, males often spend 5-10 minutes pecking the head of the recumbent females; copulation itself lasts no more than a few seconds (Hallager and Boylan 2004). Males play no role in egg or chick care, and continue to display to other females after copulation; males do not associate with females outside of breeding interactions (Hallager and Boylan 2004).

The chicks of kori bustards are precocial, have open eyes at hatching, and are able to stand within hours (Bailey et al. 1997b). Average brood size of wild birds is 1.52 chicks (Osborne and Osborne 1998). Females are thought to feed newly hatched young with insects as the primary food item. Chicks remain with the dam until the start of the next breeding season, when they disperse (Hallager and Boylan 2004). Adult and sub-adult males have been found to disperse widely (up to 120km) following the breeding season, while juvenile females were found to emigrate only 2-5km from their natal areas (Osborne and Osborne 1998, 1999, 2000).



hatch



Day 7



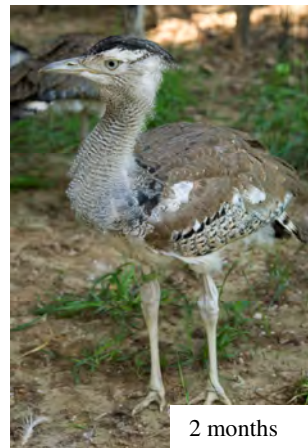
Day 14



Day 21



1 month



2 months



4 months



6 months

Physical Description: The following information on the physical appearance of kori bustards has been adapted in part from Johnsgard (1991). The table below provides ranges for kori bustard size and weight parameters.

Size and weight parameters for *A. k. struthiunculus* (adapted from Johnsgard 1991)

	Male	Female
Weight	22-33.1lb (10-15kg)	12.1-15.4 (5.5-7kg)
Breeding season weight	33.1- 41.9lb (15-19kg)	---
Tail	14.6-15.2" (370-387mm)	11-13.5" (280-342mm)
Wingspan	29.6-30.2" (752-767mm)	23.6-25.8" (600-655mm)
Culmen	3.7-4.7" (95-120mm)	3.2-3.7" (81-95mm)
Tarsus	9.1-9.7" (230-247mm)	7.1-8.1" (181-205mm)

Adult male: Kori bustards show size-based sexual dimorphism, with adult males being larger than females; the weight of adult males ranges from 15.4-30.9lb (7-14kg), while adult females usually weigh less than 15.4lb (7kg) (Bailey and Hallager 2003). Sub-adult males are similar in size to adult males but have a thinner neck (Osborne and Osborne 2001). During the breeding season, male kori bustards (*A.k.struthiunculs*) have a darkened throat patch, which becomes less black following post-breeding molt. Plumage coloration is generally similar between the sexes.

Adult female: Adult females are smaller than males, approximately 3-6kg (Bailey and Hallager 2003), with the black on the crown and with the eye stripe somewhat reduced (Urban et al. 1986). Juvenile females have a slighter appearance with a slimmer bill, thinner legs, and a brownish back (Osborne and Osborne 2001). The table below provides a general description of male and female coloration.

Coloration of kori bustards (adapted from Johnsgard 1991; Hallager and Boylan 2004)

Body Part	Coloration
General coloration (back)	Dark sandy brown, with blackish vermiculations, and with a slight grayish shade
Mantle and upper back feathers	As above, but generally more blackish
Lower back, rump, and upper tail coverts	Similar to back, but upper tail coverts are rather more coarsely freckled
Lesser wing coverts	Similar to back
Median coverts	Mostly white, coarsely mottled with black or grey freckles, with a broad black subterminal bar and a white tip
Greater coverts	Similar to median coverts, but more thickly mottled

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Body Part	Coloration
	with black or grey vermiculations
Alula	Similar to median or greater coverts, but subterminal bar not so strongly indicated
Primary coverts	Ashy brown, with the inner ones mottled and broadly tipped with white
Remiges	Brown, with two outer ones scarcely freckled with white on the outer web, but inner ones becoming more white on the inner web, barred with bluish grey, and tipped with white
Inner primaries	Some are checkered with sandy buff on the outer webs
Secondaries	Bluish-gray, mottled with white, with a white tip, and a subterminal bar of blackish-brown; the innermost secondaries are like the back
Rectrices	Ashy brown at base, crossed by two broad bands of white, separated from each other by black bands, one broad and one narrow, the latter band is followed by an indistinct white band which merges into the sandy brown ending of the tail. This portion has a narrow band of black, a broader subterminal band of black, and a white tip
Crown	Strongly crested, black, with a grayish band of feathers down the center, and a black post-ocular stripe (stripe reduced or lacking in <i>A. k. kori</i>).
Nape and sides of posterior crown	Grayish white and barred with black, exactly like the neck
Sides of face, throat, streak over eye, patch in front of eye, anterior cheeks, and chin	White
Foreneck	A crescentic band of black is partly concealed by the long barred feathers of the lower throat
Sides of the upper breast	Marked with black
Axillaries and under wing coverts	White
Lower primary coverts	Ashy freckled with white
Iris	Lemon yellow to orange brown
Bill	Light horn color, darker brown above and yellowish below
Tarsi and toes	Light yellowish

Conservation Issues: Kori bustards are listed in Appendix II of the Convention on International Trade in Endangered Species (CITES). The southern race, *Ardeotis kori kori*, is listed as Vulnerable in the South African Red Data Book (Brooke 1984), as well as the Eskom Red Data Book of Birds of South Africa, Lesotho, and Swaziland (Barnes 2000). The kori bustard population in the United States is managed as a Species Survival Plan® (SSP).

The main threats to wild kori bustards are in the form of human-induced factors, and include habitat destruction through increasing agricultural development (Dale 1990; Ottichilo et al. 2001), bush encroachment caused by over-grazing from livestock, hunting for the bushmeat trade, and trapping for private collections in the Gulf States. Poison used to control locusts is generally toxic to birds, and may also be affecting kori bustard populations (Barnes 2000). Although the kori bustard is listed as “protected game,” it continues to be hunted over much of its range. In Namibia, it is commonly referred to as the “Christmas turkey” (Osborne and Osborne 2001), and in South Africa it is called the “Kalahari Kentucky” (Barnes 2000). In general, the greatest numbers of kori bustards in southern Africa can be found in protected areas, where they are 45 times more likely to be seen in protected areas than in unprotected areas (Herremans 1998).

Collisions with overhead power lines are also a serious problem for kori bustards (Martin, G.R. 2010), with one 6 mile (10km) stretch of overhead power lines in the Karoo (South Africa) leading to the death of 22 kori bustards during a 5-month period (Van Rooyen 2000). Very little is currently known about natural health and disease issues affecting wild kori bustards, or how their health status relates to declining populations. Recent studies have begun to collect such valuable baseline information on free ranging kori bustards (Murray, S. et.al in prep).

Natural factors affecting populations of kori bustards in the wild include an inherent low reproductive rate and reduced breeding activity in dry years, despite a constant predation pressure. In addition, favored areas such as tree-lined watercourses are becoming unsuitable for kori bustards because they are being invaded by alien plant species (Barnes 2000).

Since the late nineteenth century, range-size has contracted, by 21% in East Africa and 8% in southern Africa. There is strong qualitative evidence of considerable pre- and post-1970 population declines in all range states, except Zambia (slight increase) and Angola (trend unclear). In some countries declines occurred from the early 1900s. Thus, while relatively modest change in range-size has occurred in over 100 years, numbers have greatly reduced throughout the species's range [Senyatso, K. et.al 2012].

Present range of *Ardeotis kori struthiunculus*: The present range of this subspecies is smaller than in previous times. In Ethiopia, the species is now found only south of 9° latitude. From there, the range extends west to the extreme southeastern part of Sudan and south to western Kenya and northeastern Uganda. There are no records of birds in Somalia since 1970. In Tanzania, it is restricted to the northern plains (P. Goriup, personal communication; N. Baker, personal communication). They are scarce around the coastal lowlands of Tanzania and Kenya (Zimmerman 1996).

Historical distribution of *Ardeotis kori struthiunculus*: The subspecies historically ranged throughout most of Ethiopia (Ash 1989) and southeastern Sudan (below 9° latitude). The subspecies also ranged southeast to northwestern Somalia, and west and south to northern Uganda, Kenya, and the highlands north of the Singida province in Tanzania.

Present range of *Ardeotis kori kori*: The present range of this subspecies is also smaller than in previous times. It is now distributed in the semi-arid areas in the western half of southern Africa, including Namibia, extreme southern Angola (rarely), western Zambia, Botswana, western Zimbabwe, South Africa, and the Limpopo Valley of Mozambique.

In South Africa, it is found mainly in the Transvaal lowveld and the northern Cape Province, as well as the Kruger and Kalahari Gemsbok National Parks (Kemp 1980), although it is very scarce along the eastern border of Kruger National Park near Mozambique (Barnes 2000). *A. k. kori* is a vagrant in Lesotho (P. Goriup, personal communication). Allan (1988) reported that the subspecies has declined in the Transvaal, Orange Free State, and parts of Cape Province; Parker (1994) noted that this subspecies went extinct in Swaziland prior to 1960.

Historical distribution of *Ardeotis kori kori*: This southern subspecies historically ranged throughout most of southern Africa, including Zimbabwe, Botswana, southern Angola, Namibia, South Africa, southern Mozambique (Johnsgard 1991) and Swaziland (Harrison et al. 1997).

Population: Throughout its range, the species (including both subspecies) is uncommon to locally common, but generally declining (Urban et al. 1986). The habitat of both subspecies is under threat from the spread of agriculture, high human densities, illegal hunting, over grazing by livestock, and bush encroachment. According to del Hoyo et al. (1996), the kori bustard is showing signs of chronic decline and local extinction over its entire range. Total population size has not been reported for either subspecies.

The entire East African region is currently undergoing widespread ecological changes as a result of increased agricultural practices and other forms of land use (Mwangi 1988). Since 1950, the area of land used for agriculture has increased by 26% (Happold 1995). Lado (1996) states that habitat destruction and/or alteration the most serious threat to the future of wildlife in Kenya. As an example, the area used for wheat production in the Masai Mara has grown from 4875ha in 1975 to over 50,000ha in 1995. In the nearby Loita plains (where kori bustards are known to frequent), wheat production continues to expand as the human population grows, and as farmers realize the agricultural potential of the land. As areas used for agriculture expand in Kenya, it can be expected that the numbers of wildlife, including kori bustards, will decline (Ottichilo et al. 2001).

The spread of agriculture, urbanization, pollution, pesticides (including those that are banned in other countries), and other consequences of an exploding human population, are all contributing to a deteriorating situation for many species of wildlife, including kori bustards.

The following table provides information on the conservation status of kori bustards in range countries.

Status of *Ardeotis kori struthiunculus* and *Ardeotis kori kori* in range countries

Country	Population Size/Status
<i>Ardeotis kori struthiunculus</i>	
Sudan	Breeding populations exist in the extreme southeastern area of the country, but

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Country	Population Size/Status
	total population size is unknown. Kori bustards may be only a dry season visitor to this country (Nikolaus 1987).
Kenya	Kori bustards are most numerous in the dry grassland areas of northern and western Kenya, and in the Rift Valley highlands south to Mara Game Reserve, Loita Plains, Nairobi National Park, and Amboseli National Park. They are scarce and localized from the Tana River south to Tsavo West and Tsavo East National Park (Zimmerman 1996). Total population size is unknown. Mwangi (1988) estimated 0.3 birds per km ² in Nairobi National Park in 1986/87.
Uganda	Breeding populations exist in Acholi, Lango, and Kidepo National Park. Total population size is unknown.
Ethiopia	Kori bustards were formally common in Ethiopia south of 9° latitude, but numbers have declined (P. Goriup, personal communication). Total population size is unknown.
Somalia	There are no records of birds in Somalia since 1970.
Tanzania	The Serengeti National Park, Ngorongoro Conservation Area, Tarangire National Park, Maswa Game Reserve, Arusha National Park, and Mkomazi Game Reserve offer long-term protection to kori bustards, and viable populations of birds can be found in these protected areas. Kori bustards are still relatively common in the Rift Valley highlands. There is a small and isolated population in central Tanzania, which occupies a small area at low densities (N. Baker, personal communication). This subspecies is regarded as scarce around the coast (Zimmerman 1996). The birds are hunted around the Lake Eyasi Basin, Lake Natron, and in the foothills of Mt. Kilimnjarro (N. Baker, personal communication). Total population size is unknown.
<i>Ardeotis kori kori</i>	
Botswana	<p>Despite low human densities, kori bustards in Botswana are under severe pressure from habitat loss. Nonetheless, strongholds for the species include the Kalahari Gemsbok National Park (with an estimated population size of 100-140 birds – Barnes 2000), Central Kalahari Game Reserve, Nxai Pan National Park, and the Chobe National Park, where road counts found 1 bird/106km. However, in unprotected areas, the density level dropped to 1 bird/4356km (Harrison et al. 1997). Suitable habitat for kori bustards has been lost due to grazing by livestock (Herremans 1998), which has increased dramatically over the past 100 years. Livestock numbers continue to grow despite reports of overgrazing and forecasts of devastating long-term land degradation since the early 1970's. Total population size of kori bustards is unknown.</p> <p>Kori Bustard Conservation Concern Citation: “The Status of globally and Nationally Threatened Birds in Botswana 2008 <u>Status and distribution</u> Botswana is the stronghold of the Kori Bustard in Southern Africa; elsewhere</p>

Country	Population Size/Status
	<p>in the region it has apparently decreased markedly outside protected areas. It is currently widespread in Botswana, but the key areas where it is abundant - Savuti, Nxai Pan, the Nossob Valley and Deception Valley – are within national parks and game reserves. Tyler (2005) suggested that Kori Bustards in Botswana have retreated into protected areas.</p> <p><u>Ongoing monitoring</u> A detailed PhD study of the Kori Bustard, entitled “Ecology and conservation of the Kori Bustard <i>Ardeotis kori</i> in Botswana” is being undertaken at present to ensure that the population in Botswana is secure; it will produce recommendations for the long-term conservation of the species.</p> <p><u>Threats</u> The documented threats to the species are habitat destruction (through transformation of formerly suitable areas to crop farming, and/or bush encroachment due to rangeland overgrazing), hunting pressure, human disturbance, collision with overhead transmission lines, poisoning, stray dogs and entanglement in fences – of these, illegal hunting in Botswana is definitely important (Senyatso, 2006).</p> <p><u>Conservation action</u> Apart from the applied research being undertaken (as described above), there was no conservation action undertaken for this species during 2008.</p> <p><u>Priorities for 2009 and beyond</u> It is important to establish quantifiable, measurable trends for this species both inside and outside protected areas, and to ascertain which of the general threats mentioned above are operative in Botswana, so that if the species is at risk, a Species Action Plan can be developed. These issues will emerge from the ongoing PhD study, so that conservation action could be undertaken if necessary. In the short-term, it may be constructive to repeat Ritter’s unpublished Kori Bustard counts from Nxai Pan from the early 1990s. Due to the existence of these historical data, it will be possible to get an indication of whether or not this sub-population (which is protected) has increased, remained stable or decreased – it can then serve as a benchmark for other subpopulations.</p>
Namibia	The stronghold for kori bustards in Namibia and possibly the world is in Etosha National Park, where Osborne and Osborne (1998) found 1 bird/16km. Outside the park boundaries however, birds are hunted.
Zimbabwe	Suitable habitat for kori bustards is deteriorating through overgrazing by livestock, and the situation is similar to Botswana. Matabeleland is the stronghold for the species in Zimbabwe (Rockingham-Gill 1983). The species has decreased in several areas, most noticeably in the Mashonaland plateau (Harrison et al. 1997), where birds are hunted. The decline in this area was first noticed in the 1920’s (Irwin 1981). Total population size has been variously reported in 1980, when an estimation of 10,700 birds was given by Rockingham-Gill (1983), although Dale (1990) reported 5000 birds, and Mundy (1989) estimated 2000 birds, and states that Rockingham-Gill’s 1983

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Country	Population Size/Status
	estimate is vastly over estimated. Total population size is unknown.
South Africa	Numbers declined in the 20 th century, but the extent of the decline is unknown (Brooke 1984). Kruger National Park supports 100-250 individuals (Barnes 2000). Outside protected areas, kori bustards are found in relatively large numbers only in the Platberg-Karoo Conservancy in South Africa (Barnes 2000). Allan (1988) reported that the species has declined in the Transvaal, Orange Free State (where it is uncommon to rare), and in parts of Cape Province. Total population size is estimated to be between 2000-5000 birds.
Mozambique	The kori bustard population is locally threatened (hunting is the greatest threat), and probably numbers less than 100 birds (Parker 1999).
Other	Parker (1994) noted that this subspecies went extinct in Swaziland prior to 1960. In Angola, the species is a rare visitor. In Zambia, kori bustards are found only west of the Zambezi River, although their status there is unclear. The Sioma Ngwezi National Park may offer some protection. This subspecies is considered very sparse in Natal with one sighting reported in 1976 (Cyrus and Robson 1980).

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LIVING STUDBOOK

Status: Living during 15 Mar 2013 - 15 Mar 2013
 Report ordered by: current/last location (geographic)

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=====
Stud# | Sex | Hatch Date | Sire | Dam | Location | Date | LocalID | Event | Rearing |
=====
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Zoologischer Garten Schmiding, Krenglbach, Upper Austria, Austria
 703 F ~ 1993 UNK UNK SCHMIDING ~ Oct 1995 930203 Transfer Unknown
 Totals: 0.1.0 (1)

Pairi Daiza , Cambron-Casteau, Belgium

```

697 M ~ 2005 WILD WILD TANZANIA ~ Jan 2007 NONE Capture Parent
      BOCHOLT ~ Jan 2007 Transfer
      CAMBRON 4 Feb 2007 7673 Transfer

716 F ~ 2008 UNK UNK PRIVATE ~ 2008 Transfer Unknown
      CAMBRON 16 Apr 2009 8776 Transfer
```

Totals: 1.1.0 (2)

Rome Zoo-Fondazione Bioparco Di Roma, Rome, Italy

```

358 F ~ 1989 WILD WILD TANZANIA ~ 1992 NONE Capture Parent
      AIRTANZAN ~ 1992 Transfer
      ROMA 14 Feb 1992 1431 Transfer
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Totals: 0.1.0 (1)

Tiergarten Der Stadt Nürnberg, Nürnberg, Germany

```

262 M 20 Sep 1995 MULT 244 NARC 20 Sep 1995 804 Hatch Hand
      KREFELD 20 Jul 1998 V1729 Transfer
      NURNBERG 21 Feb 2013 B03476 Transfer
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678	F	18 Jun 2008	319	321	NURNBERG	18 Jun 2008	B03287	Hatch	Hand
698	F	26 Jun 2006	319	322	NURNBERG	26 Jun 2006	B03003	Hatch	Hand

Totals: 1.2.0 (3)

Weltvogelpark Walsrode, Walsrode, Germany

705	F	6 Jun 2010	143	389	NZP-WASH WALSRODE	6 Jun 2010 11 May 2011	215883 BOR006	Hatch Transfer	Hand
706	F	21 Jun 2010	143	389	NZP-WASH WALSRODE	21 Jun 2010 11 May 2011	215888 BOR007	Hatch Transfer	Hand
710	F	20 Aug 2010	611	430	JACKSONVL WALSRODE	20 Aug 2010 26 Jul 2011	610355 BOR009	Hatch Transfer	Hand

Totals: 0.3.0 (3)

Zoo Duisburg Ag, Duisburg, Germany

286	F	9 Sep 1996	MULT	229	NARC DUISBURG	9 Sep 1996 30 Sep 1999	899 3960	Hatch Transfer	Hand
626	M	14 Oct 2005	455	251	NARC DUISBURG	14 Oct 2005 18 Jun 2008	11218 5762	Hatch Transfer	Parent
634	F	~ 2002	WILD	WILD	AFRICAN DDNP BUDAPEST SZEGED DUISBURG	~ 2002 ~ 2002 29 Sep 2004 26 Oct 2004 20 May 2007	NONE <u> </u> B00976 2062 5367	Capture Transfer Transfer Transfer Transfer	Parent

Totals: 1.2.0 (3)

2013 International Studbook for the Kori Bustard *Ardeotis kori*

Umgeni River Bird Park, Northway, South Africa

662	F	~ 2007	WILD	WILD	TANZANIA	~ May 2007	NONE	Capture	Parent
					BESTER	~ Jun 2007	_____	Transfer	
					UMGENI PK	9 Aug 2007	3148	Transfer	

Totals: 0.1.0 (1)

Johannesburg Zoological Gardens, Parkview, South Africa

154	M	~ Mar 1996	WILD	WILD	AFRICAN	~ Mar 1996	NONE	Capture	Parent
					KRAAIFONT	15 Mar 1996	960135	Transfer	
					JOHANSBRG	13 Jul 2001	4908	Transfer	
420	F	~ 1997	WILD	WILD	S.AFRICA	~ Aug 1998	NONE	Capture	Parent
					ALBUTT C	~ Aug 1998	_____	Transfer	
					JOHANSBRG	21 Aug 1998	3596	Transfer	

Totals: 1.1.0 (2)

Birmingham Zoo, Birmingham, Alabama, USA

545	M	9 Jun 2001	370	131	DALLAS	9 Jun 2001	01D914	Hatch	Parent
					BIRMINGHM	23 May 2002	B02018	Transfer	
546	F	8 Sep 2001	143	119	NZP-WASH	8 Sep 2001	214841	Hatch	Hand
					ATLANTA	11 Aug 2002	A20020	Transfer	
					BIRMINGHM	23 Aug 2002	B02066	Transfer	
741	M	~ 1 Apr 2012	545	546	BIRMINGHM	~ 1 Apr 2012	UNK	Hatch	Hand

Totals: 2.1.0 (3)

Phoenix Zoo, Phoenix, Arizona, USA

654	M	22 Jun 2007	143	389	NZP-WASH	22 Jun 2007	215631	Hatch	Hand
					PHOENIX	27 Mar 2008	11008	Transfer	
656	M	3 Jul 2007	143	115	NZP-WASH	3 Jul 2007	215634	Hatch	Hand
					PHOENIX	27 Mar 2008	11009	Transfer	

2013 International Studbook for the Kori Bustard *Ardeotis kori*

683	F	22 Aug 2008	143	389	PHOENIX	22 Aug 2008	11147	Hatch	Hand
690	F	19 Jul 2009	153	356	METROZOO NASHVILLE PHOENIX	19 Jul 2009 8 Sep 2010 11 Mar 2011	B90220 3343 11695	Hatch Transfer Transfer	Hand
691	F	5 Aug 2009	143	389	ATLANTA PHOENIX	5 Aug 2009 4 May 2010	A90051 11415	Hatch Transfer	Foster
715	F	1 Mar 2011	367	99	SD-WAP PHOENIX	1 Mar 2011 27 Mar 2012	811019 12002	Hatch Transfer	Hand
735	M	3 Jun 2011	143	389	NZP-WASH PHOENIX	3 Jun 2011 22 Mar 2012	215980 11995	Hatch Transfer	Hand
737	M	15 Jun 2011	143	389	NZP-WASH PHOENIX	15 Jun 2011 22 Mar 2012	215985 11996	Hatch Transfer	Hand
738	M	27 Jul 2011	435	429	TOLEDO PHOENIX	27 Jul 2011 28 Mar 2012	7407 12005	Hatch Transfer	Hand

Totals: 5.4.0 (9)

Reid Park Zoo, Tucson, Arizona, USA

474	M	24 Jun 2000	143	119	NZP-WASH STCATHERN TUCSON	24 Jun 2000 19 May 2001 6 May 2005	214627 S00080 X55097	Hatch Transfer Transfer	Hand
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Totals: 1.0.0 (1)

The Living Desert Zoo and Gardens, Palm Desert, California, USA

612	F	19 Jun 2004	143	389	NZP-WASH PALM DES	19 Jun 2004 10 Mar 2005	215275 205003	Hatch Transfer	Hand
679	M	5 Jul 2008	370	131	DALLAS PALM DES	5 Jul 2008 21 Jan 2010	08J267 210001	Hatch Transfer	Parent

Totals: 1.1.0 (2)

2013 International Studbook for the Kori Bustard *Ardeotis kori*

 San Diego Zoo Safari Park, Escondido, California, USA

99	F	~ 1984	WILD	WILD	AFRICAN	~ 1986	NONE	Capture	Parent
					RON BROWN	~ 1986	_____	Transfer	
					SD-WAP	11 Jul 1986	029555	Transfer	
395	F	~ 1995	WILD	WILD	TANZANIA	~ Nov 1997	NONE	Capture	Parent
					MILLER R	8 Jun 1998	_____	Transfer	
					SD-WAP	11 Jul 1998	898317	Transfer	
585	M	~ 1995	WILD	WILD	AFRICAN	~ Jan 1998	NONE	Capture	Parent
					MILLER R	~ Jun 1998	_____	Transfer	
					SD-WAP	11 Jul 1998	898316	Transfer	
610	M	22 Oct 2003	143	389	METROZOO	22 Oct 2003	B30250	Hatch	Hand
					YULEE	3 Nov 2004	Y45303	Transfer	
					PHOENIX	~10 Mar 2010	_____	Transfer	
					SD-WAP	25 Oct 2011	811221	Transfer	

Totals: 2.2.0 (4)

 Cheyenne Mt Zoological Park, Colorado Springs, Colorado, USA

621	M	24 Jun 2005	428	448	WACO	24 Jun 2005	B04205	Hatch	Hand
					COLO SPRG	16 May 2007	27A045	Transfer	

Totals: 1.0.0 (1)

 Denver Zoological Gardens, Denver, Colorado, USA

590	M	7 Jul 2003	143	119	NZP-WASH	7 Jul 2003	215123	Hatch	Hand
					DENVER	5 May 2004	A04146	Transfer	
694	F	~ 2007	WILD	WILD	TANZANIA	~ 2009	NONE	Capture	Parent
					DENVER	31 Mar 2009	A09033	Transfer	

Totals: 1.1.0 (2)

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Smithsonian National Zoological Park, Washington, District of Columbia, USA

143	M	~ 1988	WILD	WILD	AFRICAN NY BRONX STCATHERN NZIP-WASH	~ 1990 ~ 1990 3 Aug 1990 21 Mar 2000	NONE 905032 905032 214461	Capture Transfer Transfer Transfer	Parent
389	F	~ 1996	WILD	WILD	TANZANIA MILLER R NZIP-WASH	~ Nov 1997 ~ 8 Jun 1998 11 Jul 1998	NONE _____ 214097	Capture Transfer Transfer	Parent
677	F	29 Jun 2008	143	389	NZIP-WASH	29 Jun 2008	215755	Hatch	Hand
680	M	5 Jul 2008	370	131	DALLAS NZIP-WASH	5 Jul 2008 21 Sep 2010	08J268 215899	Hatch Transfer	Parent
681	F	17 Jul 2008	143	389	NZIP-WASH	17 Jul 2008	215759	Hatch	Hand
700	F	10 Mar 2010	367	99	SD-WAP NZIP-WASH	10 Mar 2010 ~ Jan 2011	810059 215978	Hatch Transfer	Hand
739	F	9 Jun 2012	143	389	NZIP-WASH	9 Jun 2012	216102	Hatch	Hand
740	F	10 Jun 2012	143	389	NZIP-WASH	10 Jun 2012	216103	Hatch	Hand

Totals: 2.6.0 (8)

Jacksonville Zoo and Gardens, Jacksonville, Florida, USA

430	F	1 May 1999	69	131	DALLAS JACKSONVL	1 May 1999 22 May 2001	99C715 601341	Hatch Transfer	Parent
611	M	23 Oct 2002	143	389	METROZOO YULEE JACKSONVL	23 Oct 2002 3 Nov 2004 ~ Nov 2005	B30252 Y45304 606306	Hatch Transfer Transfer	Hand

Totals: 1.1.0 (2)

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Zoo Miami, Miami, Florida, USA

356	F	3 Oct 1997	94	119	NZP-WASH METROZOO	3 Oct 1997 5 May 2005	213964 B50183	Hatch Transfer	Hand
394	M	~ 1996	WILD	WILD	TANZANIA MILLER R DISNEY AK METROZOO	~ Nov 1997 8 Jun 1998 11 Jul 1998 15 Apr 2005	NONE _____ 981435 B50134	Capture Transfer Transfer Transfer	Parent

Totals: 1.1.0 (2)

Zoo Atlanta, Atlanta, Georgia, USA

655	F	23 Jun 2007	143	389	NZP-WASH ATLANTA	23 Jun 2007 5 Nov 2008	215632 A80060	Hatch Transfer	Hand
664	M	26 Oct 2007	384	438	AUDUBON ATLANTA	26 Oct 2007 5 Nov 2008	102310 A80059	Hatch Transfer	Hand

Totals: 1.1.0 (2)

Sedgwick County Zoo, Wichita, Kansas, USA

688	F	17 Jul 2009	611	430	JACKSONVL SEDGWICK	17 Jul 2009 8 Mar 2011	_____ 13252	Hatch Transfer	Hand
692	M	6 Aug 2009	143	389	ATLANTA SEDGWICK	6 Aug 2009 1 Jul 2010	A90054 _____	Hatch Transfer	Foster

Totals: 1.1.0 (2)

Audubon Zoo, New Orleans, Louisiana, USA

400	F	22 Aug 1998	94	119	NZP-WASH AUDUBON	22 Aug 1998 28 Apr 1999	214132 2551	Hatch Transfer	Hand
544	M	8 Jun 2001	370	131	DALLAS ATLANTA	8 Jun 2001 23 May 2002	01D912 A20002	Hatch Transfer	Parent

2013 International Studbook for the Kori Bustard *Ardeotis kori*

SEDGWICK 27 Jan 2007 11641 Transfer
 AUDUBON 5 Oct 2010 103200 Transfer

Totals: 1.1.0 (2)

Zoo New England Franklin Park Zoo, Boston, Massachusetts, USA

608 F 10 Oct 2003 143 389 FRANKLINP 10 Oct 2003 F03482 Hatch Hand
 687 M 23 Jun 2009 143 389 NZP-WASH 23 Jun 2009 215819 Hatch Hand
 PHOENIX 16 Mar 2010 11395 Transfer
 FRANKLINP ~26 Apr 2012 A12411 Transfer

Totals: 1.1.0 (2)

Kansas City Zoo, Kansas City, Missouri, USA

437 M 28 Sep 1999 94 119 NZP-WASH 28 Sep 1999 214404 Hatch Hand
 AUDUBON 17 Oct 2000 100004 Transfer
 KANSASCTY 30 Sep 2003 A03051 Transfer
 614 F 18 Jun 2004 370 131 DALLAS 18 Jun 2004 04F157 Hatch Parent
 TUCSON 12 Jan 2005 T55140 Transfer
 KANSASCTY 2 Nov 2010 A10025 Transfer

Totals: 1.1.0 (2)

Toledo Zoological Gardens, Toledo, Ohio, USA

429 F 30 Apr 1999 69 131 DALLAS 30 Apr 1999 99C714 Hatch Parent
 STCATHERN 27 Mar 2001 S01027 Transfer
 TOLEDO 4 Aug 2005 4218 Transfer
 588 F 14 Jun 2003 370 131 DALLAS 14 Jun 2003 03E753 Hatch Hand
 TOLEDO 3 Jun 2004 3481 Transfer

Totals: 0.2.0 (2)

2013 International Studbook for the Kori Bustard *Ardeotis kori*

Dallas Zoo, Dallas, Texas, USA

57	F	~ 1976	WILD	WILD	AFRICAN CHASE B DALLAS	~ 1979 ~ 1979 22 Oct 1979	NONE _____ 002024	Capture Transfer Transfer	Parent
152	M	~ 1994	WILD	WILD	TANZANIA MILLER R KANSASCTY DALLAS	~ Apr 1996 ~ Apr 1996 30 May 1996 17 Dec 2005	NONE _____ 203537 05G219	Capture Transfer Transfer Transfer	Parent
623	F	3 Jun 2005	370	131	DALLAS CALDWELL YULEE DALLAS	3 Jun 2005 3 Jun 2005 29 Nov 2006 22 Jun 2010	05F831 105631 Y65301 _____	Hatch Transfer Transfer Transfer	Parent

Totals: 1.2.0 (3)

Fort Worth Zoological Park, Ft Worth, Texas, USA

439	M	~ Jan 1996	WILD	WILD	TANZANIA MILLER R FORTWORTH	~ Jan 1999 ~ Jan 1999 6 May 1999	NONE _____ 990501	Capture Transfer Transfer	Parent
713	F	~ 2008	WILD	WILD	TANZANIA DEALER FORTWORTH	~ 2010 ~ 2010 27 Sep 2010	NONE NONE 206581	Capture Transfer Transfer	Parent

Totals: 1.1.0 (2)

Cameron Park Zoo, Waco, Texas, USA

448	F	30 Oct 1999	94	119	NZP-WASH WACO	30 Oct 1999 6 Jun 2000	214433 B02700	Hatch Transfer	Hand
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Totals: 0.1.0 (1)

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Africam Safari, Puebla, Mexico

676	M	28 Jun 2008	143	389	NZP-WASH	28 Jun 2008	215754	Hatch	Hand
					PUEBLA	26 Feb 2010	7378	Transfer	

Totals: 1.0.0 (1)

Al Ain Wildlife Park & Resort, Abu Dhabi, United Arab Emirates

625	F	10 Sep 2005	455	215	NARC	10 Sep 2005	11215	Hatch	Foster
					AL AIN	30 Aug 2010	B18033	Transfer	
627	M	15 Oct 2005	455	251	NARC	15 Oct 2005	11219	Hatch	Parent
					AL AIN	30 Aug 2010	B18031	Transfer	
666	F	1 Oct 2007	455	251	NARC	1 Oct 2007	12830	Hatch	Parent
					AL AIN	30 Aug 2010	B18032	Transfer	
668	M	3 Oct 2007	455	251	NARC	3 Oct 2007	12832	Hatch	Parent
					AL AIN	30 Aug 2010	B18030	Transfer	

Totals: 2.2.0 (4)

National Avian Research Center, Abu Dhabi, United Arab Emirates

251	F	21 Nov 1994	MULT	242	NARC	21 Nov 1994	708	Hatch	Hand
455	M	27 Aug 1999	241	229	NARC	27 Aug 1999	1444	Hatch	Unknown
659	F	1 Jul 2007	455	251	NARC	1 Jul 2007	12816	Hatch	Hand

Totals: 1.2.0 (3)

H.E. Sheikh Butti Maktoum's Wildlife Centre, Dubai, United Arab Emirates

485	F	2 Mar 2000	UNK	224	NARC	2 Mar 2000	1790	Hatch	Hand
					MAKTOUM	2 Jul 2002	A00211	Transfer	
552	M	~ 1992	WILD	WILD	TANZANIA	~ 1997	NONE	Capture	Parent

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						MAKTOUM	15 Jun 1997	97B228	Transfer	
555	M	~ 1992	WILD	WILD	TANZANIA	MAKTOUM	15 Jun 1997	97B231	Capture	Parent
									Transfer	
557	F	~ 1991	WILD	WILD	TANZANIA	MAKTOUM	15 Jun 1997	97B233	Capture	Parent
									Transfer	
732	M	24 Oct 2009	UNK	485	MAKTOUM		24 Oct 2009	A00899	Hatch	Parent
733	F	26 Oct 2009	UNK	485	MAKTOUM		26 Oct 2009	A00900	Hatch	Parent
734	M	1 Oct 2009	UNK	UNK	KEVI		1 Oct 2009	_____	Hatch	Hand
					MAKTOUM		1 Jan 2010	A10252	Transfer	

Totals: 4.3.0 (7)

Wadi Al Safa Wildlife Centre, Dubai, United Arab Emirates

701	M	~ Jun 2000	UNK	UNK	SAFA WILD		~ Jun 2000	441	Hatch	Hand
702	F	~ Jun 2000	UNK	UNK	SAFA WILD		~ Jun 2000	442	Hatch	Hand

Totals: 1.1.0 (2)

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TOTALS: 37.48.0 (85)

32 Institutions

CURRENT HOLDING INSTITUTIONS

ISIS MNEMONIC

HOLDING FACILITY

AL AIN

Al Ain Wildlife Park & Resort
PO Box 1204
Al Ain
U.A.E
Studbook Contact: Mujeeb Rahman
Mujeeb.Rahman@awpr.ae

AFRICAM

Africam Safari Park
KM 16.5 Boulevard Capt. Carlos Camacho E.
Tecali de Herrera, Puebla 72960
MEXICO
Studbook Contact: Caroline Holguin
cholguin@africamsafari.com.mx

ATLANTA

Zoo Atlanta
800 Cherokee Ave SE
Atlanta, Georgia 30315
USA
Studbook Contact: Katie Bagley
kbagley@zoatlanta.org

AUDUBON

Audubon Park Zoo
P.O. Box 4327
New Orleans, Louisiana 70178
USA
Studbook Contact: Lee Schoen
lschoen@auduboninstitute.org

BIRMINGHM

Birmingham Zoo
2630 Cahaba Road
Birmingham, Alabama 35223
USA
Studbook Contact: Cindy Pinger
cpinger@birminghamzoo.com

CAMBRON

Pairi Daiza
Domaine de Cambron, I
B-7940
Cambron-Casteau
BELGIUM
Studbook Contact: Vanessa Pluvinage
vanessa.pluvinage@pairidaiza.eu

2013 International Studbook for the Kori Bustard *Ardeotis kori*

COLO SPRG	Cheyenne Mountain Zoo 4250 Cheyenne Mountain Zoo Road Colorado Springs, Colorado 80906 USA Studbook Contact: Roxanna Breitigan rbreitigan@cmzoo.org
DALLAS	Dallas Zoo 650 So. R.L. Thornton Fwy. Dallas, Texas 75203 USA Studbook Contact: Chris Brown Chris.Brown@dallaszoo.com
DENVER	Denver Zoological Gardens 2300 Steele Street Denver, CO 80205 USA Studbook Contact: John Azua jazua@denverzoo.org
DUISBURG	Zoo Duisburg AG Mülheimer Straße 273 47058 Duisburg 0203 30559-0 Germany Studbook Contact: Jochen Reiter Reiter@zoo-duisburg.de
FORTWORTH	Fort Worth Zoological Park 1989 Colonial Parkway Forth Worth, Texas 76110 USA Studbook Contact: Katy Unger kunger@fortworthzoo.org
FRANKLINP	Franklin Park Zoo 1 Franklin Park Road Boston, MA 02121 USA Studbook Contact: Fred Beall fbeall@zoonewengland.com

2013 International Studbook for the Kori Bustard *Ardeotis kori*

JACKSONVL	Jacksonville Zoological Gardens 8605 Zoo Parkway Jacksonville, Florida 32218 USA Studbook Contact: Donna Bear-Hull bearhulld@jaxzoo.org
JOHANSBRG	Johannesburg Zoological Garden Private Bag X13 Parkview Gauteng 2122 SOUTH AFRICA Studbook Contact: Ginger Smit ginger@jhbzoo.org.za
KANSASCTY	Kansas City Zoological Park 6700 Zoo Drive Kansas City, Missouri 64132 USA Studbook Contact: Joni Hartman Joni_Hartman@fotzkc.org
MAKTOUM	H.E. Sheikh Butti Maktoum's Wildlife Centre P.O. Box 7237 Dubai UAE Studbook Contact: Alan Stephenson alanuae2008@gmail.com
METROZOO	Zoo Miami 12400 SW 152nd Street Miami, Florida 33177-1499 USA Studbook Contact: Jim Dunster JND@miamidade.gov
NARC	National Avian Research Center P.O. Box 45553 Abu Dhabi UNITED ARAB EMIRATES Studbook Contact:
NURNBERG	Am Tiergarten 30 D-90480 Nürnberg Bavaria Germany Studbook Contact: Monika Fea Monika.Fea@stadt.nuernberg.de

2013 International Studbook for the Kori Bustard *Ardeotis kori*

NZP-WASH	Smithsonian National Zoological Park 3001 Connecticut Ave. NW Washington DC 20008 USA Studbook Contact: Sara Hallager hallagers@si.edu
PALM DES	Living Desert 47900 Portola Ave. Palm Desert, CA 92260 USA Studbook Contact: Liz Johnson ljohnson@livingdesert.org
PHOENIX	Phoenix Zoo 435 N. Galvin Parkway Phoenix, AZ 85008 USA Studbook Contact: John Sills Email: jsills@thephxzoo.com
ROMA	Fondazione Bioparco di Roma Viale del Giardino Zoologico, 20 Roma Italy Studbook Contact:
SAFA WILD	Wadi Al Safa Wildlife Centre PO Box 27875 Dubai United Arab Emirates Studbook Contact: Declan O'Donovan cianod@eim.ae
SCHMIDING	Schmidingerstrasse 5 Krenglbach Upper Austria A-4631 AUSTRIA Studbook Contact:
SD-WAP	San Diego Zoo Safari Park 15500 San Pasqual Valley Road Escondido, California 92027 USA Studbook Contact: Mike Mace mmace@sandiegozoo.org

2013 International Studbook for the Kori Bustard *Ardeotis kori*

EDGWICK	Sedgwick County Zoo 5555 W. Zoo Blvd Wichita, KS 67212 USA Studbook Contact: Scott Newland snewland@scz.org
TOLEDO	The Toledo Zoo PO Box 140130 Toledo, OH 43614 USA Studbook Contact: Robert Webster robert.webster@toledo zoo.org
TUCSON	Reid Park Zoo 1100 S Randolph Way Tucson, AZ USA 85716 Studbook Contact: Leslie Waters leslie.waters@tucsonaz.gov
UMENGI PK	Umgeni River Bird Park PO Box 35205 Northway 4065 South Africa Studbook Contact: Grant Aggett-Cox education@urbp.co.za and Werner Marais werner@urbp.co.za
WACO	Cameron Park Zoo 1701 N. 4 th Street Waco, Texas 76707 USA Studbook Contact: Shawn Strycula shawns@ci.waco.tx.us
WALSRODE	Vogelpark Walsrode Am Rieselbach 29664 Walsrode GERMANY Studbook Contact: Anne Hoppman anne.hoppmann@weltvogelpark.de

REPRODUCTIVE PARAMETERS

♀♀ FEMALE REPRODUCTIVE DATA

Youngest dams at first reproduction:

625 at NARC had baby 696 at age 1Y,11M,30D
 371 at PHOENIX had baby 533 at age 3Y,0M,5D
 290 at NARC had baby 500 (d<30 days) at age 3Y,7M,16D
 284 at NARC had baby 507 at age 3Y,9M,7D
 272 at NARC had baby 470 at age 3Y,11M,25D
 251 at NARC had baby 449 at age 4Y,2M,8D
 273 at NARC had baby 493 at age 4Y,6M,11D
 448 at WACO had baby 619 (d<30 days) at age 5Y,5M,20D
 206 at NARC had baby 287 at age ~5Y,7M,17D
 321 at NURNBERG had baby 333 at age ~6Y

Oldest dams at first reproduction:

115 at NZP-WASH had baby 656 at age ~22Y
 99 at SD-WAP had baby 575 at age ~18Y
 87 at STCATHERN had baby 542 at age ~18Y
 322 at NURNBERG had baby 698 at age 16Y,11M,14D
 57 at DALLAS had baby 148 at age ~16Y '
 317 at NURNBERG had baby 334 (d<30 days) at age ~16Y
 78 at PHOENIX had baby 193 at age ~14Y
 80 at PHOENIX had baby 192 at age ~13Y
 131 at DALLAS had baby 429 at age ~13Y
 119 at NZP-WASH had baby 356 at age ~12Y

Oldest dams to have reproduced:

57 at DALLAS had baby 616 (d<30 days) at age ~28Y
 57 at DALLAS had baby 641 (stillb/prem) at age ~28Y
 99 at SD-WAP had baby 715 at age ~27Y
 99 at SD-WAP had baby 700 at age ~26Y
 131 at DALLAS had baby 689 at age ~23Y
 57 at DALLAS had baby 428 at age ~23Y
 131 at DALLAS had baby 679 at age ~22Y
 115 at NZP-WASH had baby 656 at age ~22Y
 57 at DALLAS had baby 397 at age ~22Y '
 131 at DALLAS had baby 674 (d<30 days) at age ~22Y

FEMALES	Median	Average	N
Age at first reproduction:	~7Y	9Y, 0M, 22D	46
During all reproduction:	~11Y	12Y, 0M, 29D	318
Age at last reproduction:	~11Y	12Y, 0M, 29D	46

2013 International Studbook for the Kori Bustard *Ardeotis kori*

Shortest interclutch intervals

Dam	Interval	Offspring
119	11 days between	399 & 400
389	12 days between	608 & 610
389	12 days between	654 & 657
389	12 days between	735 & 737
119	13 days between	434 & 435
245	13 days between	463 & 469
119	14 days between	479 & 480
244	14 days between	460 & 465
244	14 days between	509 & 513
251	14 days between	467 & 473
317	14 days between	341 & 342
78	15 days between	370 & 369

Hatch seasonality
(clutches to known dams)

January:	4	1%
February:	5	2%
March:	8	3%
April:	12	4%
May:	16	6%
June:	44	16%
July:	34	12%
August:	43	16%
September:	47	17%
October:	50	18%
November:	10	4%
December:	4	1%

2013 International Studbook for the Kori Bustard *Ardeotis kori*

Viability:

Clutch size:	Lived > 1 year		Died < 1 year		Died < 30 days		DInShell & Dead Embryo	
3	2	67%	0	0%	0	0%	1	33%
2	64	68%	12	13%	16	17%	2	2%
1	155	68%	35	15%	38	17%	1	0%

FEMALE AGE DATA

Oldest females:

402	Wild hatched	Died at KREFELD/V1653 at age of ~31Y In captivity for ~30Y
78	Wild hatched	Died at METROZOO/B50373 at age of ~30Y In captivity for ~28Y
87	Wild hatched	Died at NZP-WASH/215349 at age of ~28Y In captivity for ~27Y
115	Wild hatched	Died at NZP-WASH/215326 at age of ~26Y In captivity for ~24Y
139	Wild hatched	Died at METROZOO/B30080 at age of ~26Y In captivity for ~24Y
131	Wild hatched	Died at DALLAS/948952 at age of ~26Y In captivity for ~25Y
46	Wild hatched	Died at NZP-WASH/213812 at age of ~25Y In captivity for ~20Y
108	Wild hatched	Died at SD-WAP/387166 at age of ~24Y In captivity for ~22Y
95	Wild hatched	Died at NZP-WASH/209207 at age of ~24Y In captivity for ~22Y
136	Wild hatched	Died at DALLAS/886438 at age of ~23Y In captivity for ~21Y

Oldest living females:

57	Wild hatched	At DALLAS/002024 at age of ~37Y In captivity for ~33Y
99	Wild hatched	At SD-WAP/029555 at age of ~29Y In captivity for ~27Y
358	Wild hatched	At ROMA/1431 at age of ~24Y In captivity for ~21Y
557	Wild hatched	At MAKTOUM/97B233 at age of ~22Y In captivity for 15Y, 9M, 1D
703	Unk hatch type	At SCHMIDING/930203 at age of ~20Y In captivity for ~17Y, 5M
251	Captive hatched	At NARC/708 at age of 18Y, 3M, 25D
395	Wild hatched	At SD-WAP/898317 at age of ~17Y In captivity for 14Y, 9M, 9D
389	Wild hatched	At NZP-WASH/214097 at age of ~16Y In captivity for ~14Y, 9M, 9D
286	Captive hatched	At DUISBURG/3960 at age of 16Y, 6M, 6D
420	Wild hatched	At JOHANSBRG/3596 at age of ~16Y In captivity for ~14Y, 7M

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Oldest unknown sex:

11	Wild hatched	Died at NZP-WASH/31849 at age of ~14Y In captivity for ~12Y
7	Wild hatched	Died at NZP-WASH/28751 at age of ~9Y In captivity for ~7Y
17	Wild hatched	Died at DETROIT/H01944 at age of ~7Y In captivity for ~5Y
301	Wild hatched	Died at FRANKFURT/17723 at age of ~6Y In captivity for ~4Y, 10M
1	Wild hatched	Died at NY BRONX/_____ at age of ~5Y In captivity for 2Y, 8M, 11D
151	Wild hatched	Died at SAN ANTON/_____ at age of ~4Y In captivity for ~3Y
150	Wild hatched	Died at SAN ANTON/_____ at age of ~4Y In captivity for ~3Y
37	Wild hatched	Died at SD-WAP/016491 at age of ~4Y In captivity for ~3Y
15	Wild hatched	Died at DETROIT/H01943 at age of ~3Y In captivity for ~1Y
2	Wild hatched	Died at NY BRONX/_____ at age of ~3Y In captivity for 6M, 21D

REPRODUCTIVE PARAMETERS

♂♂ MALE REPRODUCTIVE DATA

275 at NARC had baby 584 at age 2Y,10M,7D
 264 at NARC had baby 450 at age 3Y,3M,23D
 372 at NARC had baby 495 at age 3Y,5M,18D
 292 at NARC had baby 494 at age 3Y,5M,28D
 285 at NARC had baby 512 at age 3Y,8M,8D
 565 at NARC had baby 582 at age 3Y,9M,27D
 366 at PHOENIX had baby 543 at age 3Y,11M,16D
 370 at DALLAS had baby 544 at age 3Y,11M,19D
 390 at NZP-WASH had baby 477 at age ~4Y
 269 at NARC had baby 536 at age 4Y,2M,0D

Oldest sires at first reproduction:

67 at PHOENIX had baby 533 at age ~20Y
 66 at PHOENIX had baby 192 at age ~18Y
 94 at NZP-WASH had baby 356 at age ~15Y
 132 at STCATHERN had baby 542 at age ~15Y
 153 at METROZOO had baby 690 at age ~14Y
 152 at DALLAS had baby 689 at age ~14Y
 367 at SD-WAP had baby 700 at age 12Y,7M,2D
 143 at NZP-WASH had baby 474 at age ~12Y
 69 at DALLAS had baby 148 at age ~12Y
 319 at NURNBERG had baby 334 at age ~11Y

Oldest sires to have reproduced:

319 at NURNBERG had baby 678 at age ~27Y
 319 at NURNBERG had baby 698 at age ~25Y
 143 at NZP-WASH had baby 740 at age ~24Y
 143 at NZP-WASH had baby 739 at age ~24Y
 143 at NZP-WASH had baby 737 at age ~23Y
 143 at NZP-WASH had baby 735 at age ~23Y
 143 at NZP-WASH had baby 707 at age ~22Y
 143 at NZP-WASH had baby 706 at age ~22Y
 143 at NZP-WASH had baby 705 at age ~22Y
 143 at NZP-WASH had baby 704 at age ~22Y

	MALES	Median	Average	N
Age at first reproduction:		5Y,10M,30D	8Y,3M,17D	34
During all reproduction:		11Y,0M,16D	11Y,8M,27D	241
Age at last reproduction:		8Y,1M,2D	10Y,4M,25D	34

MALE AGE DATA

Oldest males:

66	Wild hatched	Died at METROZOO/B20152 at age of ~29Y In captivity for ~18Y
319	Wild hatched	Died at NURNBERG/B00228 at age of ~28Y In captivity for ~27Y
408	Wild hatched	Died at DUISBURG/4336 at age of ~22Y In captivity for ~19Y
67	Wild hatched	Died at PHOENIX/7331 at age of ~21Y In captivity for ~16Y
320	Wild hatched	Died at NURNBERG/B00229 at age of ~21Y In captivity for ~21Y,3M
174	Wild hatched	Died at PAIGNTON/350 at age of ~21Y In captivity for ~19Y
22	Wild hatched	Died at DALLAS/002023 at age of ~20Y In captivity for ~19Y
69	Wild hatched	Died at DALLAS/854530 at age of ~20Y In captivity for ~15Y
141	Wild hatched	Died at DALLAS/00D626 at age of ~19Y In captivity for ~19Y
409	Wild hatched	Died at WALSRODE/B0R001 at age of ~19Y In captivity for ~17Y

Oldest living males:

143	Wild hatched	At NZP-WASH/214461 at age of ~25Y In captivity for ~23Y
555	Wild hatched	At MAKTOUM/97B231 at age of ~21Y In captivity for 15Y,9M,1D
552	Wild hatched	At MAKTOUM/97B228 at age of ~21Y In captivity for 15Y,9M,1D
152	Wild hatched	At DALLAS/05G219 at age of ~18Y In captivity for ~16Y,11M
585	Wild hatched	At SD-WAP/898316 at age of ~18Y In captivity for ~14Y,9M
262	Captive hatched	At NURNBERG/B03476 at age of 17Y,5M,27D
439	Wild hatched	At FORTWORTH/990501 at age of ~17Y,2M
154	Wild hatched	At JOHANSBRG/4908 at age of ~17Y,0M
394	Wild hatched	At METROZOO/B50134 at age of ~16Y In captivity for 14Y,9M,9D
455	Captive hatched	At NARC/1444 at age of 13Y,6M,20D

FECUNDITY & MORTALITY REPORT

Age	Fecundity [Mx]...				Mortality [Qx]...				Survival [Lx]...	
	Male	N	Female	N	Male	N	Female	N	Male	Female
0- 1	0.00	154.2	0.00	156.8	0.30	202.5	0.30	207.9	1.000	1.000
1- 2	0.00	171.0	0.00	189.0	0.13	188.5	0.08	200.7	0.700	0.700
2- 3	0.01	194.3	0.00	250.6	0.13	212.0	0.10	268.4	0.609	0.644
3- 4	0.17	168.7	0.02	223.4	0.11	179.9	0.09	235.0	0.530	0.580
4- 5	0.09	141.2	0.04	197.7	0.14	153.7	0.11	210.7	0.472	0.527
5- 6	0.07	120.8	0.04	171.0	0.12	129.8	0.12	181.9	0.406	0.469
6- 7	0.14	104.5	0.03	150.7	0.15	112.8	0.07	155.6	0.357	0.413
7- 8	0.15	88.3	0.18	134.6	0.12	94.7	0.08	139.7	0.303	0.384
8- 9	0.09	76.8	0.10	116.6	0.06	79.7	0.13	125.0	0.267	0.353
9-10	0.04	69.9	0.07	103.3	0.09	73.7	0.03	103.9	0.251	0.308
10-11	0.15	60.0	0.10	93.3	0.14	64.9	0.14	98.5	0.228	0.298
11-12	0.13	51.3	0.29	77.6	0.14	56.1	0.11	82.4	0.196	0.257
12-13	0.14	43.1	0.27	69.3	0.11	46.0	0.07	72.0	0.169	0.228
13-14	0.26	34.2	0.12	59.0	0.21	38.5	0.11	63.3	0.150	0.212
14-15	0.16	28.3	0.25	48.5	0.08	29.5	0.11	51.1	0.119	0.189
15-16	0.41	25.8	0.34	40.4	0.07	27.0	0.11	43.9	0.109	0.168
16-17	0.19	23.8	0.26	31.5	0.04	24.8	0.14	34.6	0.102	0.150
17-18	0.36	19.1	0.52	25.0	0.10	19.9	0.11	26.8	0.098	0.129
18-19	0.31	14.5	0.27	22.3	0.13	15.9	0.00	22.3	0.088	0.115
19-20	1.29	11.2	0.17	21.5	0.15	13.0	0.05	22.0	0.076	0.115
20-21	1.37	10.0	0.09	19.4	0.18	11.0	0.10	20.2	0.065	0.109
21-22	1.17	6.4	0.17	18.0	0.40	7.4	0.06	18.0	0.053	0.098
22-23	0.86	3.5	0.36	14.9	0.25	4.0	0.19	16.2	0.032	0.092
23-24	0.50	3.0	0.09	12.9	0.00	3.0	0.08	13.0	0.024	0.075
24-25	0.50	3.0	0.00	9.7	0.00	3.0	0.18	11.2	0.024	0.069
25-26	0.34	2.2	0.00	8.4	0.00	2.2	0.11	9.0	0.024	0.056
26-27	0.00	2.0	0.11	5.6	0.00	2.0	0.38	8.0	0.024	0.050
27-28	0.38	2.0	0.12	5.0	0.00	2.0	0.00	5.0	0.024	0.031
28-29	0.00	2.0	0.29	4.1	0.50	2.0	0.20	5.0	0.024	0.031
29-30	0.00	0.7	0.00	3.2	1.00	1.0	0.00	3.2	0.012	0.025
30-31	0.00	0.0	0.00	2.4	0.00	0.0	0.33	3.0	0.000	0.025
31-32	0.00	0.0	0.00	1.6	0.00	0.0	0.50	2.0	0.000	0.017
32-33	0.00	0.0	0.00	1.0	0.00	0.0	0.00	1.0	0.000	0.008
33-34	0.00	0.0	0.00	1.0	0.00	0.0	0.00	1.0	0.000	0.008
34-35	0.00	0.0	0.00	1.0	0.00	0.0	0.00	1.0	0.000	0.008
35-36	0.00	0.0	0.00	1.0	0.00	0.0	0.00	1.0	0.000	0.008
36-37	0.00	0.0	0.00	1.0	0.00	0.0	0.00	1.0	0.000	0.008
37-38	0.00	0.0	0.00	0.2	0.00	0.0	0.00	0.2	0.000	0.008
38-39	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.000	0.008
39-40	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.000	0.008

Gestation Period: 23 days

T = 13.195 T = 13.108
 Ro = 0.753 Ro = 0.652
 lambda=0.98 lambda=0.97
 r = -0.021 r = -0.033

30 day mortality: 18%
 (70 deaths out of 387 arriving
 within 30 days of birth date)

2013 International Studbook for the Kori Bustard *Ardeotis kori*

291 birth events to known age parents tabulated for Mx...
(Average of 326 births to female parents and 257 births to male
parents.)

plus...

131 births to UNK or MULT sires...

62 births to UNK or MULT dams...

543 death events with known age tabulated for Qx...

WARNING: Values with small sample sizes (~N<30) warrant less confidence...

NOTE: Offspring of UNK or MULT parents have been proportionately
factored into the fecundity.

CENSUS REPORT

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 Taxon Name: ARDEOTIS KORI
 =====

Year as of 31 Dec ----	# Insts -----	Specimen Counts -----		Observed Lambda	
				Annual -----	Geometric Mean -----
2013	32	37.48.0	(85)	0.99	
2012	33	38.48.0	(86)	0.91	0.95 (last 2 yrs)
2011	33	43.51.0	(94)	0.96	0.95 (last 3 yrs)
2010	34	45.53.0	(98)	0.84	0.93 (last 4 yrs)
2009	34	53.63.0	(116)	1.06	0.95 (last 5 yrs)
2008	35	50.59.0	(109)	1.02	0.96 (last 6 yrs)
2007	32	48.59.0	(107)	1.05	0.97 (last 7 yrs)
2006	33	44.58.0	(102)	0.98	0.98 (last 8 yrs)
2005	36	45.59.0	(104)	0.87	0.96 (last 9 yrs)
2004	38	50.69.0	(119)	0.90	0.96 (last 10 yrs)
2003	36	54.78.0	(132)	0.81	0.94 (last 11 yrs)
2002	34	62.100.1	(163)	0.93	0.94 (last 12 yrs)
2001	31	72.103.1	(176)	0.88	0.94 (last 13 yrs)
2000	35	86.111.3	(200)	1.15	0.95 (last 14 yrs)
1999	30	75.97.2	(174)	1.14	0.96 (last 15 yrs)
1998	32	57.91.5	(153)	0.96	0.96 (last 16 yrs)
1997	35	60.98.1	(159)	1.07	0.97 (last 17 yrs)
1996	36	58.89.1	(148)	1.09	0.97 (last 18 yrs)
1995	32	50.84.2	(136)	1.09	0.98 (last 19 yrs)
1994	37	47.74.4	(125)	0.96	0.98 (last 20 yrs)
1993	37	46.80.4	(130)	1.12	0.99 (last 21 yrs)
1992	31	39.77.0	(116)	1.02	0.99 (last 22 yrs)
1991	35	38.76.0	(114)	1.01	0.99 (last 23 yrs)
1990	33	38.75.0	(113)	1.35	1.00 (last 24 yrs)
1989	37	30.54.0	(84)	0.94	1.00 (last 25 yrs)
1988	40	32.57.0	(89)	1.00	1.00 (last 26 yrs)
1987	38	34.54.1	(89)	1.29	1.01 (last 27 yrs)
1986	32	26.43.0	(69)	1.23	1.02 (last 28 yrs)
1985	26	23.33.0	(56)	1.65	1.03 (last 29 yrs)
1984	15	12.22.0	(34)	1.48	1.04 (last 30 yrs)
1983	12	8.15.0	(23)	1.05	1.04 (last 31 yrs)
1982	12	9.13.0	(22)	0.85	1.04 (last 32 yrs)
1981	12	10.16.0	(26)	0.96	1.04 (last 33 yrs)
1980	12	10.17.0	(27)	1.13	1.04 (last 34 yrs)
1979	13	9.15.0	(24)	0.89	1.03 (last 35 yrs)
1978	12	10.17.0	(27)	1.17	1.04 (last 36 yrs)
1977	10	10.13.0	(23)	1.53	1.05 (last 37 yrs)
1976	10	9.5.1	(15)	1.07	1.05 (last 38 yrs)
1975	9	8.5.1	(14)	1.00	1.05 (last 39 yrs)
1974	9	8.5.1	(14)	1.08	1.05 (last 40 yrs)
1973	8	7.5.1	(13)	0.59	1.03 (last 41 yrs)
1972	11	10.10.2	(22)	0.88	1.03 (last 42 yrs)
1971	13	12.8.5	(25)	1.09	1.03 (last 43 yrs)
1970	12	11.6.6	(23)	0.85	1.03 (last 44 yrs)
1969	13	10.8.9	(27)	1.50	1.04 (last 45 yrs)
1968	12	7.9.2	(18)	0.82	1.03 (last 46 yrs)
1967	11	8.11.3	(22)	1.10	1.03 (last 47 yrs)
1966	10	5.12.3	(20)	1.67	1.04 (last 48 yrs)
1965	8	4.5.3	(12)	1.09	1.04 (last 49 yrs)
1964	7	6.3.2	(11)	1.10	1.04 (last 50 yrs)
1963	6	6.3.1	(10)	1.11	1.05 (last 51 yrs)
1962	4	6.2.1	(9)	1.80	1.06 (last 52 yrs)

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1961	3	4.0.1	(5)	1.25	1.06	(last 53 yrs)
1960	2	4.0.0	(4)	0.80	1.05	(last 54 yrs)
1959	2	4.1.0	(5)	1.00	1.05	(last 55 yrs)
1958	3	4.1.0	(5)	1.25	1.06	(last 56 yrs)
1957	3	3.1.0	(4)	0.80	1.05	(last 57 yrs)
1956	3	3.1.1	(5)	1.25	1.05	(last 58 yrs)
1955	2	3.1.0	(4)	2.00	1.07	(last 59 yrs)
1954	1	1.1.0	(2)	1.00	1.06	(last 60 yrs)
1953	1	1.1.0	(2)	2.00	1.08	(last 61 yrs)
1952	1	1.0.0	(1)	1.00	1.07	(last 62 yrs)
1951	1	1.0.0	(1)	1.00	1.07	(last 63 yrs)
1950	1	1.0.0	(1)	0.00	---	(last 64 yrs)
1949	0	0.0.0	(0)	0.00	---	(last 65 yrs)
1948	0	0.0.0	(0)	0.00	---	(last 66 yrs)
1947	0	0.0.0	(0)	0.00	---	(last 67 yrs)
1946	0	0.0.0	(0)	0.00	0.76	(last 68 yrs)
1945	1	1.0.0	(1)	1.00	0.77	(last 69 yrs)
1944	1	1.0.0	(1)	0.50	0.76	(last 70 yrs)
1943	2	1.0.1	(2)	1.00	0.76	(last 71 yrs)
1942	2	1.0.1	(2)	1.00	0.77	(last 72 yrs)
1941	2	1.0.1	(2)	2.00	0.78	(last 73 yrs)
1940	1	1.0.0	(1)	1.00	0.78	(last 74 yrs)
1939	1	1.0.0	(1)	1.00	0.78	(last 75 yrs)
1938	1	1.0.0	(1)	1.00	0.78	(last 76 yrs)
1937	1	1.0.0	(1)	1.00	0.79	(last 77 yrs)
1936	1	1.0.0	(1)	1.00	0.79	(last 78 yrs)
1935	1	1.0.0	(1)	0.07	0.77	(last 79 yrs)

Note: Lambda values include Imports and Exports...

CENSUS DETAILS REPORT

During	Captures	Hatches	Deaths in shell	Releases	Deaths	LTFs
----	-----	-----	-----	-----	-----	-----
2012	0.0.0	1.2.0	0.0.0	0.0.0	6.5.0	0.0.0
2011	0.0.0	3.1.2	0.0.0	0.0.0	5.3.2	0.0.0
2010	0.1.0	2.6.2	0.0.1	0.0.0	11.17.2	0.0.0
2009	0.1.0	6.7.0	0.0.0	0.0.0	3.4.0	0.0.0
2008	0.0.0	5.5.5	0.0.1	0.0.0	3.6.4	0.1.1
2007	2.2.0	9.6.5	0.0.0	0.0.0	6.7.4	1.0.1
2006	0.0.0	2.4.0	0.0.0	0.0.0	3.5.0	0.0.0
2005	0.0.0	5.3.2	0.0.0	0.0.0	5.9.2	5.4.0
2004	0.0.1	2.2.2	0.0.1	0.0.0	6.1.3	0.10.0
2003	0.0.0	7.7.2	0.0.1	0.0.0	6.10.2	9.19.1
2002	0.1.0	1.2.0	0.0.0	0.0.0	10.6.0	1.0.0
2001	0.0.0	5.4.4	0.0.0	0.0.0	12.7.6	7.5.0
2000	0.0.0	22.28.21	0.0.0	0.0.0	10.9.17	1.5.3
1999	6.1.0	19.18.6	0.0.0	0.0.0	4.13.8	3.0.1
1998	2.2.0	6.7.6	0.0.0	0.0.0	11.15.2	0.1.0
1997	10.17.0	9.3.2	0.0.0	0.0.0	15.8.2	2.2.0
1996	4.5.1	8.11.2	0.0.0	0.0.0	4.11.4	0.1.0
1995	1.1.0	10.12.8	0.0.0	0.0.0	7.3.6	1.1.4
1994	2.0.0	4.3.6	0.0.0	0.0.0	5.9.6	0.0.0
1993	4.9.4	9.4.9	0.0.0	0.0.0	6.10.9	0.0.0
1992	2.4.0	6.3.2	0.0.0	0.0.0	6.6.2	1.0.0
1991	1.1.0	4.6.1	0.0.0	0.0.0	5.6.1	0.0.0
1990	6.26.0	4.2.0	0.0.0	0.0.0	2.5.0	0.2.0
1989	2.0.0	1.4.0	0.0.0	0.0.0	5.7.0	0.0.0
1988	2.4.0	0.0.0	0.0.0	0.0.0	4.1.1	0.0.0
1987	12.19.1	0.0.0	0.0.0	0.0.0	3.7.0	1.1.0
1986	5.15.0	0.0.0	0.0.0	0.0.0	2.5.0	0.0.0
1985	14.11.0	0.1.0	0.0.0	0.0.0	3.1.0	1.0.0
1984	6.10.0	0.0.0	0.0.0	0.0.0	0.3.0	1.0.0
1983	1.2.0	0.0.0	0.0.0	0.0.0	2.0.0	0.0.0
1982	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0	0.0.0
1981	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
1980	4.3.0	0.0.0	0.0.0	0.0.0	3.1.0	0.0.0
1979	2.2.0	0.0.0	0.0.0	0.0.0	3.4.0	0.0.0
1978	3.4.0	0.0.0	0.0.0	0.0.0	3.0.0	0.0.0
1977	3.8.0	0.0.0	0.0.0	0.0.0	2.0.1	0.0.0
1976	2.2.0	0.0.0	0.0.0	0.0.0	1.2.0	0.0.0
1975	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
1974	2.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
1973	0.0.0	0.0.0	0.0.0	0.0.0	3.5.1	0.0.0
1972	0.2.0	0.0.0	0.0.0	0.0.0	2.0.3	0.0.0
1971	5.3.0	0.0.0	0.0.0	0.0.0	4.1.1	0.0.0
1970	2.1.0	0.0.0	0.0.0	0.0.0	1.3.3	0.0.0
1969	4.2.7	0.0.0	0.0.0	0.0.0	1.3.0	0.0.0
1968	1.0.0	0.0.0	0.0.0	0.0.0	2.2.1	0.0.0
1967	5.3.0	0.0.0	0.0.0	0.0.0	2.4.0	0.0.0
1966	2.7.2	0.0.0	0.0.0	0.0.0	1.0.2	0.0.0
1965	1.4.2	0.0.0	0.0.0	0.0.0	3.2.1	0.0.0
1964	1.0.1	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
1963	2.3.0	0.0.0	0.0.0	0.0.0	2.2.0	0.0.0
1962	2.2.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1961	0.0.1	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1960	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0
1959	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
1958	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1957	1.0.0	0.0.0	0.0.0	0.0.0	1.0.1	0.0.0
1956	0.0.1	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1955	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0

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1954	0.0.8	0.0.0	0.0.0	0.0.0	0.0.0	0.0.8
1953	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1952	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1951	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1950	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1949	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1948	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1947	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1946	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
1945	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1944	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	0.0.0
1943	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1942	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1941	0.0.1	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1940	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1939	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1938	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1937	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1936	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
1935	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0

Stillbirths are included in both the Hatch and Death columns...

GLOBAL POPULATION ANALYSIS

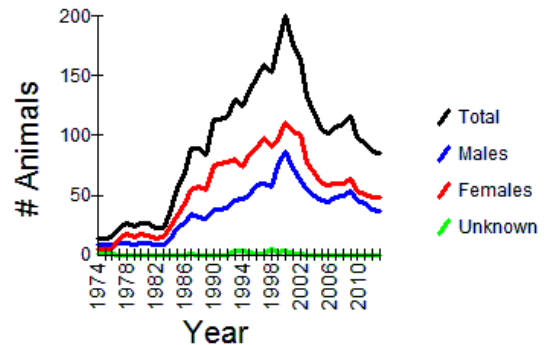
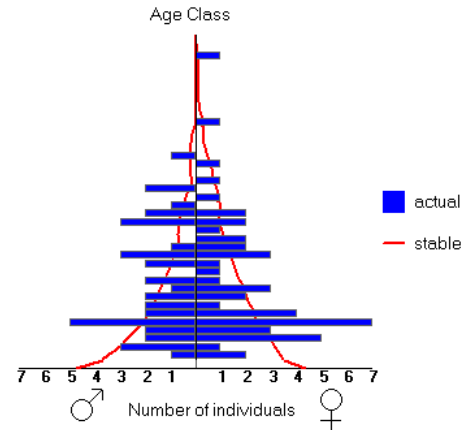
Demographic Summary:

Current size of managed population	85 (37.48)
# Specimens excluded from management	0
Mean generation time	14.6 years
Potential population growth rate	0.979
# Births in past year	3
# Deaths in past year	7

Demographic terms

Generation length- the average time elapsing from reproduction in one generation to the time the next generation reproduces. Also, the average age at which a male or female produces offspring. It is not age of first reproduction. Males and females may have different generation times.

Population growth last year (lambda)- the proportional change in population size from one year to the next. Lambda can be based on life-table calculations (the expected lambda) or from observed changes in population size from year to year. A lambda of 1.11 means a 11% per year increase; lambda of 0.97 means a 3% decline in size per year.



Genetic Summary:

	Current	Potential
Founders	20	16 additional
Founder genome equivalents	7.41	30.47
Founder genome surviving	13.46	30.47
Gene diversity retained	0.933	0.984
Population mean kinship	0.068	0.016
Mean inbreeding	0	0.016
Ne / N	0.15	-----
% of pedigree known	84	-----

Genetic terms

Gene diversity- The proportional gene diversity is the probability that two alleles from the same locus sampled at random from the population will not be identical by descent. Gene diversity is calculated from allele frequencies and is the heterozygosity expected in progeny produced by random mating

Founder- an individual obtained from a source population (often the wild) that has no known relationship to any individuals in the derived population (except for its own descendents)

Inbreeding coefficient- probability that the two alleles at a genetic locus are identical by descent from an ancestor common to both parents.

Founder Genome Equivalent- the number of wild caught individuals (founders) that would produce the same amount of gene diversity, as does the population under study

Descendant population Mean Kinship- The mean kinship coefficient between an animal and all animals (including itself) in the living, captive born population.



Photo by Jim Jenkins

Life Table data for males and females

Age	Males					Females				
	Qx	Px	Lx	Mx	Vx	Qx	Px	Lx	Mx	Vx
0	0.300	0.700	1.000	0.000	1.176	0.300	0.700	1.000	0.000	1.176
1	0.130	0.870	0.700	0.000	1.505	0.080	0.920	0.700	0.000	1.448
2	0.130	0.870	0.609	0.010	1.705	0.100	0.900	0.644	0.000	1.547
3	0.110	0.890	0.530	0.170	1.899	0.090	0.910	0.580	0.020	1.664
4	0.140	0.860	0.472	0.090	1.945	0.110	0.890	0.527	0.040	1.776
5	0.120	0.880	0.406	0.070	2.103	0.120	0.880	0.469	0.040	1.908
6	0.150	0.850	0.357	0.140	2.313	0.070	0.930	0.413	0.030	2.012
7	0.120	0.880	0.303	0.150	2.478	0.080	0.920	0.384	0.180	2.084
8	0.060	0.940	0.267	0.090	2.526	0.130	0.870	0.353	0.100	2.067
9	0.090	0.910	0.251	0.040	2.593	0.030	0.970	0.307	0.070	2.088
10	0.140	0.860	0.228	0.150	2.839	0.140	0.860	0.298	0.100	2.144
11	0.140	0.860	0.196	0.130	3.080	0.110	0.890	0.257	0.290	2.276
12	0.110	0.890	0.169	0.140	3.326	0.070	0.930	0.228	0.270	2.126
13	0.210	0.790	0.150	0.260	3.725	0.110	0.890	0.212	0.120	1.983
14	0.080	0.920	0.119	0.160	4.028	0.110	0.890	0.189	0.250	2.036
15	0.070	0.930	0.109	0.410	4.121	0.110	0.890	0.168	0.340	1.953
16	0.040	0.960	0.102	0.190	3.872	0.140	0.860	0.150	0.260	1.791
17	0.100	0.900	0.098	0.350	3.898	0.110	0.890	0.129	0.520	1.705
18	0.130	0.870	0.088	0.310	3.946	0.000	1.000	0.115	0.270	1.224
19	0.150	0.850	0.076	1.290	4.162	0.050	0.950	0.115	0.170	0.952
20	0.180	0.820	0.065	1.370	3.384	0.100	0.900	0.109	0.090	0.822
21	0.400	0.600	0.053	1.160	2.753	0.060	0.940	0.098	0.170	0.775
22	0.250	0.750	0.032	0.860	2.392	0.180	0.820	0.092	0.360	0.667
23	0.000	1.000	0.024	0.500	1.761	0.080	0.920	0.075	0.090	0.346
24	0.000	1.000	0.024	0.500	1.242	0.180	0.820	0.069	0.000	0.285
25	0.000	1.000	0.024	0.340	0.731	0.110	0.890	0.057	0.000	0.326
26	0.000	1.000	0.024	0.000	0.386	0.380	0.620	0.051	0.110	0.415
27	0.000	1.000	0.024	0.380	0.380	0.000	1.000	0.031	0.120	0.388
28	0.500	0.500	0.024	0.000	0.000	0.200	0.800	0.031	0.290	0.290
29	1.000	0.000	0.012	0.000	0.000	0.000	1.000	0.025	0.000	0.000
30	1.000	0.000	0.000	0.000	0.000	0.330	0.670	0.025	0.000	0.000
31	1.000	0.000	0.000	0.000	0.000	0.500	0.500	0.017	0.000	0.000
32	1.000	0.000	0.000	0.000	0.000	0.000	1.000	0.008	0.000	0.000
33	1.000	0.000	0.000	0.000	0.000	0.000	1.000	0.008	0.000	0.000
34	1.000	0.000	0.000	0.000	0.000	0.000	1.000	0.008	0.000	0.000
35	1.000	0.000	0.000	0.000	0.000	0.000	1.000	0.008	0.000	0.000
36	1.000	0.000	0.000	0.000	0.000	0.000	1.000	0.008	0.000	0.000
37	1.000	0.000	0.000	0.000	0.000	0.000	1.000	0.008	0.000	0.000
38	1.000	0.000	0.000	0.000	0.000	1.000	0.000	0.008	0.000	0.000
39	1.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000

Qx = mortality; Px = survival; Lx = cumulative survivorship; Mx = fecundity; Vx = expected future reproduction

Projected population growth rates

Males: $r = -0.0149$; $\lambda = 0.9853$; $R_0 = 0.806$; $T = 14.59$

Females: $r = -0.0275$; $\lambda = 0.9729$; $R_0 = 0.669$; $T = 14.64$

Hatches from 1 January 2012 – 31 December 2012

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event
739	F	9 Jun 2012	143	389	NZP-WASH	9 Jun 2012	216102	Hatch
740	F	10 Jun 2012	143	389	NZP-WASH	10 Jun 2012	216103	Hatch
741	M	~ 1 Apr 2012	545	546	BIRMINGHM	~ 1 Apr 2012	UNK	Hatch
TOTALS: 1.2.0 (3)								



Photo by Jim Jenkins

Deaths from 1 January 2012 – 31 December 2012

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event
78	F	~ 1982	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					FERNDALE	~ 1984		Transfer
					PHOENIX	4 Dec 1984	4434	Transfer
					STCATHERN	6 Mar 2003	S03008	Transfer
					METROZOO	7 Jul 2005	B50373	Transfer
					28 May 2012		Death	
[Death by: Euthanasia (medical) † Incinerate † Musculoskeletal † Trauma † Necropsy received]								
131	F	~ 1986	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
					FOUTS J	~ 1987		Transfer
					CALDWELL	25 Jun 1987	001066	Transfer
					DALLAS	6 Jun 1994	948952	Transfer
						30 Jan 2012		Death
[Death by: Unknown means]								
139	F	~ 1986	WILD	WILD	AFRICAN	~ 1988	NONE	Capture
					GRND PRAI	~ 1988	23282	Transfer
					OMAHA	8 Dec 1988	5257	Transfer
					AUDUBON	28 Apr 1999	2550	Transfer
					METROZOO	15 May 2003	B30080	Transfer
					25 Mar 2012		Death	
[Death by: Injury from exhibit mate † Unknown † Reproductive † Trauma † Necropsy received]								
153	M	~ 1994	WILD	WILD	TANZANIA	~ Apr 1996	NONE	Capture
					MILLER R	~ Apr 1996		Transfer
					KANSASCTY	30 May 1996	203536	Transfer
					STCATHERN	28 Sep 2003	S03080	Transfer
					METROZOO	7 Jul 2005	B50372	Transfer
					5 Oct 2012		Death	
[Death by: Euthanasia (medical) † Mounted or Preserved: UNKNOWN † Musculoskeletal † Trauma † Necropsy received]								
402	F	~ 1980	WILD	WILD	BOTSWANA	~ 1981	NONE	Capture
					WALSRODE	~ 1981	BOR002	Transfer
					KREFELD	17 Sep 1997	V1653	Transfer
						2 Feb 2012		Death
[Death by: Infection associated † Given to an institution: † Hemic/Lymph † Bacterial † Necropsy not received]								
403	M	~ 1994	WILD	WILD	TANZANIA	~ 1996	NONE	Capture
					MALLORCA	~ 1996		Transfer
					WALSRODE	22 Feb 1997	BOR003	Transfer
						13 Oct 2012		Death
[Death by: Unknown means]								
404	F	~ 1994	WILD	WILD	TANZANIA	~ 1996	NONE	Capture
					MALLORCA	~ 1996		Transfer
					WALSRODE	22 Feb 1997	BOR004	Transfer
						22 Apr 2012		Death
[Death by: Unknown means]								
428	M	18 Apr 1999	69	57	DALLAS	18 Apr 1999	99C672	Hatch
					WACO	26 Jun 2000	B02800	Transfer
					DALLAS	~25 Apr 2012	UNK	Transfer

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6 Jun 2012 Death

[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma † Necropsy not received]

652	M	11 Jun 2007	370	131	DALLAS WACO	11 Jun 2007 07H263 26 Apr 2012 _____ 1 May 2012	Hatch Transfer Death
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[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]

682	M	17 Jul 2008	143	389	NZP-WASH PUEBLA	17 Jul 2008 215760 26 Feb 2010 7379 16 Jan 2012	Hatch Transfer Death
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[Death by: Infection associated † Unknown † Generalized † Trauma † Necropsy not received]

712	M	30 Oct 2010	611	430	JACKSONVL WALSRODE	30 Oct 2010 610374 26 Jul 2011 BOR008 15 Feb 2012	Hatch Transfer Death
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Death by: Unknown means]

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TOTALS: 6.5.0 (11)

Transfers from 1 January 2012 – 31 December 2012

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event
428	M	18 Apr 1999	69	57	DALLAS	18 Apr 1999	99C672	Hatch
					WACO	26 Jun 2000	B02800	Transfer
					DALLAS	~25 Apr 2012	UNK	Transfer
						6 Jun 2012		Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma † Necropsy not received]								
652	M	11 Jun 2007	370	131	DALLAS	11 Jun 2007	07H263	Hatch
					WACO	26 Apr 2012	_____	Transfer
						1 May 2012		Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
687	M	23 Jun 2009	143	389	NZP-WASH	23 Jun 2009	215819	Hatch
					PHOENIX	16 Mar 2010	11395	Transfer
					FRANKLINP	~26 Apr 2012	A12411	Transfer
715	F	1 Mar 2011	367	99	SD-WAP	1 Mar 2011	811019	Hatch
					PHOENIX	27 Mar 2012	12002	Transfer
735	M	3 Jun 2011	143	389	NZP-WASH	3 Jun 2011	215980	Hatch
					PHOENIX	22 Mar 2012	11995	Transfer
737	M	15 Jun 2011	143	389	NZP-WASH	15 Jun 2011	215985	Hatch
					PHOENIX	22 Mar 2012	11996	Transfer
738	M	27 Jul 2011	435	429	TOLEDO	27 Jul 2011	7407	Hatch
					PHOENIX	28 Mar 2012	12005	Transfer
=====								
TOTALS: 6.1.0 (7)								

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HISTORICAL KORI BUSTARD STUDBOOK

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
1	?	~ 1939	WILD	WILD	AFRICAN NY BRONX	~ 1941 8 Aug 1941 19 Apr 1944	NONE _____	Capture Transfer Death
								[Death by: Unknown means]
2	?	~ 1954	WILD	WILD	AFRICAN NY BRONX	~ 1956 12 Jul 1956 31 Jan 1957	NONE _____	Capture Transfer Death
								[Death by: Unknown means]
3	M	~ 1954	WILD	WILD	AFRICAN CLEVELAND	~ 1955 ~ Jun 1955 11 Oct 1965	NONE _____	Capture Transfer Death
								[Death by: Unknown means]
4	M	~ 1954	WILD	WILD	AFRICAN CLEVELAND	~ 1955 ~ Jun 1955 10 Oct 1967	NONE _____	Capture Transfer Death
								[Death by: Unknown means]
5	M	~ 1955	WILD	WILD	AFRICAN NY BRONX	~ 1957 16 May 1957 25 Jun 1959	NONE _____	Capture Transfer Death
								[Death by: Unknown means]
6	M	~ 1958	WILD	WILD	AFRICAN CLEVELAND BUFFALO	~ 1959 ~ 1959 16 Jun 1965	NONE _____ B9097	Capture Transfer Transfer

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					3 Jul 1965		Death	
					[Death by: Injury from exhibit mate † Unknown † Unknown (after necropsy)]			
7	?	~ 1959	WILD	WILD	KENYA	~ 1961	NONE	Capture
					SEAGO	~ 1961	_____	Transfer
					NZP-WASH	31 Aug 1961	28751	Transfer
						28 Dec 1968		Death
					[Death by: Infection associated † Unknown † Digestive † Nutrition]			
8	F	~ 1961	WILD	WILD	AFRICAN	~ 1963	NONE	Capture
					PHILADELP	16 Aug 1963	20255	Transfer
						5 Jan 1965		Death
					[Death by: Infection associated † Unknown † Cardiovascular † Circulatory, secondary]			
9	F	~ 1962	WILD	WILD	E.AFRICA	~ 1963	NONE	Capture
					FERNDALE	~ 1964	_____	Transfer
					OKLAHOMA	28 Sep 1965	072302	Transfer
						20 Apr 1970		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
10	M	~ 1962	WILD	WILD	AFRICAN	~ 1963	NONE	Capture
					PHILADELP	16 Aug 1963	20254	Transfer
						18 Oct 1964		Death
					[Death by: Self-inflicted injuries † Unknown † Cardiovascular † Trauma]			
11	?	~ 1963	WILD	WILD	E.AFRICA	~ 1964	NONE	Capture
					MCHALE	~ 1965	_____	Transfer
					NZP-WASH	24 Aug 1966	31849	Transfer
						12 Mar 1977		Death
					[Death by: Infection associated † Unknown † Generalized † Trauma]			
12	M	~ 1963	WILD	WILD	E.AFRICA	~ 1964	NONE	Capture
					FERNDALE	~ 1965	_____	Transfer
					OKLAHOMA	28 Sep 1965	072201	Transfer
						7 Feb 1978		Death
					[Death by: Euthanasia (medical) † Unknown † Integumentary † Trauma]			
13	F	~ 1963	WILD	WILD	AFRICAN	~ 1965	NONE	Capture
					SOEST	~ 1965	_____	Transfer

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					BUFFALO	27 May 1965	B9096	Transfer
					CLEVELAND	17 Jun 1965	_____	Transfer
						7 Jul 1971		Death
					[Death by: Euthanasia (medical) † Unknown † Sense organs † Mechanical abnormality]			
14	M	~ 1963	WILD	WILD	AFRICAN	~ 1965	NONE	Capture
					SOEST	~ 1965	_____	Transfer
					BUFFALO	27 May 1965	B9095	Transfer
						8 Jun 1965		Death
					[Death by: Anesth/Restraint assoc † Unknown † Generalized † Unknown after necropsy]			
15	?	~ 1963	WILD	WILD	AFRICAN	~ 1965	NONE	Capture
					SOEST	~ 1965	_____	Transfer
					DETROIT	25 May 1965	H01943	Transfer
						17 Jun 1966		Death
					[Death by: Unknown means]			
16	?	~ 1963	WILD	WILD	AFRICAN	~ 1965	NONE	Capture
					SOEST	~ 1965	_____	Transfer
					DETROIT	25 May 1965	H01942	Transfer
						24 Sep 1965		Death
					[Death by: Unknown means]			
17	?	~ 1964	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
					SOEST	~ 1966	_____	Transfer
					DETROIT	20 Sep 1966	H01944	Transfer
						28 Aug 1971		Death
					[Death by: Unknown means]			
18	M	~ 1964	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
					SOEST	~ 1966	_____	Transfer
					DETROIT	20 Sep 1966	H01945	Transfer
						23 Oct 1971		Death
					[Death by: Infection associated † Unknown † Respiratory † Toxicity]			
19	F	~ 1964	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
					SOEST	~ 1966	_____	Transfer
					CLEVELAND	22 Sep 1966	_____	Transfer
						11 May 1967		Death

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								[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]
20	F	~ 1964	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
				SOEST		~ 1966	_____	Transfer
				CLEVELAND	22 Sep 1966	_____	_____	Transfer
					5 Aug 1969			Death
								[Death by: Infection associated † Unknown † Sense organs † Bacterial]
21	F	~ 1964	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
				SOEST		~ 1966	_____	Transfer
				CLEVELAND	22 Sep 1966	_____	_____	Transfer
					5 Jul 1976			Death
								[Death by: Unknown means]
22	M	~ 1965	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
				SOEST		~ 1966	_____	Transfer
				DALLAS	21 Sep 1966	002023		Transfer
					4 Jul 1985			Death
								[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
23	F	~ 1965	WILD	WILD	AFRICAN	~ 1967	NONE	Capture
				FERNDALE		~ 1967	_____	Transfer
				FRANKLINP	21 Jun 1967	A048		Transfer
					12 Jul 1967			Death
								[Death by: Died in transit † Unknown † Unknown (after necropsy)]
24	M	~ 1965	WILD	WILD	AFRICAN	~ 1967	NONE	Capture
				FERNDALE		~ 1967	_____	Transfer
				FRANKLINP	21 Jun 1967	A047		Transfer
					25 Sep 1971			Death
								[Death by: Unknown means]
25	F	~ 1965	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
				NY BRONX		~ 1966	_____	Transfer
				SAN ANTON	5 Dec 1968	_____	_____	Transfer
					21 Mar 1970			Death
								[Death by: Unknown means]
26	M	~ 1965	WILD	WILD	AFRICAN	~ 1967	NONE	Capture

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					FERNDALE	~ 1967	_____	Transfer
					BUFFALO	21 Jun 1967	B9098	Transfer
						27 Jul 1967		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
27	F	~ 1965	WILD	WILD	AFRICAN	~ 1967	NONE	Capture
					FERNDALE	~ 1967	_____	Transfer
					BUFFALO	21 Jun 1967	B9099	Transfer
						7 Jul 1967		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
28	M	~ 1986	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					OUNDLE	~ Feb 1987	_____	Transfer
					RUSHDEN	1 Apr 1987	4939	Transfer
					HAYLE	16 Jul 1987	S191	Transfer
						2 Jul 1992		Death
					[Death by: Unknown means]			
29	M	~ 1967	WILD	WILD	AFRICAN	~ 1968	NONE	Capture
					SANDIEGOZ	5 Jun 1969	413620	Transfer
					SD-WAP	14 Dec 1969	413620	Transfer
					SANDIEGOZ	~ 1972		Death
					[Death by: Unknown means]			
30	M	~ 1967	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					FRANKLINP	10 Jul 1969	A049	Transfer
						31 Jul 1969		Death
					[Death by: Unknown means]			
31	F	~ 1967	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					FRANKLINP	10 Jul 1969	A050	Transfer
						2 Jun 1970		Death
					[Death by: Unknown means]			
32	M	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SD-WAP	9 Jan 1970	016486	Transfer

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						18 Sep 1973		Death
						[Death by: Unknown means]		
33	?	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SD-WAP	9 Jan 1970	016487	Transfer
						8 Feb 1970		Death
						[Death by: Unknown means]		
34	?	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SD-WAP	9 Jan 1970	016488	Transfer
						19 Mar 1970		Death
						[Death by: Unknown means]		
35	F	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SD-WAP	26 Mar 1970	016489	Transfer
						24 Sep 1973		Death
						[Death by: Unknown means]		
36	?	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SD-WAP	26 Mar 1970	016490	Transfer
						23 Nov 1970		Death
						[Death by: Unknown means]		
37	?	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SD-WAP	26 Mar 1970	016491	Transfer
						15 Jan 1972		Death
						[Death by: Unknown means]		
38	M	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ Nov 1969	_____	Transfer
					SANDIEGOZ	14 Nov 1969	016485	Transfer
					SD-WAP	14 Nov 1969	016485	Transfer
						12 Feb 1970		Death
						[Death by: Unknown means]		

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39	M	~ 1970	WILD	WILD	AFRICAN SOUTHWICK BATONROUG OKLAHOMA	~ 1971 ~ 1971 3 Nov 1971 20 Oct 1977 7 Feb 1978	NONE _____ 88 693504	Capture Transfer Transfer Transfer Death
[Death by: Euthanasia (medical) † Unknown † Integumentary † Trauma]								
40	M	~ 1970	WILD	WILD	E.AFRICA SOUTHWICK OKLAHOMA	~ 1971 ~ 1971 15 Sep 1971 6 Aug 1980	NONE _____ 176202	Capture Transfer Transfer Death
[Death by: Unknown means]								
41	F	~ 1971	WILD	WILD	E.AFRICA SOUTHWICK OKLAHOMA	~ 1972 ~ 1972 26 Oct 1972 6 Jan 1973	NONE _____ 300005	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
42	F	~ 1971	WILD	WILD	E.AFRICA ABILENE OKLAHOMA	~ 1972 ~ 1972 17 Jun 1972 21 Dec 1984	NONE _____ 209603	Capture Transfer Transfer Death
[Death by: Infection associated † Unknown † Urinary † Nutrition]								
43	M	~ 1973	WILD	WILD	AFRICAN FERNDAL PHILADELP	~ 1978 ~ 1978 4 Dec 1978 10 Oct 1979	NONE _____ 201184	Capture Transfer Transfer Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
44	M	~ 1973	WILD	WILD	AFRICAN FERNDAL PHILADELP	~ 1978 ~ 1978 14 Dec 1978 28 Oct 1980	NONE _____ 201185	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Respiratory † Trauma]								
45	F	~ 1973	WILD	WILD	AFRICAN	~ 1978	NONE	Capture

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				FERNDALE	~ 1978	_____	Transfer	
				PHILADELP	4 Dec 1978	201186	Transfer	
					16 Aug 1981		Death	
				[Death by: Self-inflicted injuries † Unknown † Digestive † Trauma]				
46	F	~ 1973	WILD	WILD	AFRICAN	~ 1978	NONE	Capture
					FERNDALE	~ 1978	_____	Transfer
					PHILADELP	4 Dec 1978	201187	Transfer
					NZP-WASH	10 Sep 1996	213812	Transfer
						14 May 1998		Death
				[Death by: Unknown means]				
47	F	~ 1974	WILD	WILD	AFRICAN	~ 1976	NONE	Capture
					METROZOO	~ 1976	787	Transfer
					STCATHERN	1 Sep 1992	925021	Transfer
					METROZOO	23 Jul 1993	787	Transfer
					PHOENIX	29 Nov 1995	7676	Transfer
						11 Sep 1996		Death
				[Death by: Infection associated † Unknown † Generalized † Trauma]				
48	M	~ 1975	WILD	WILD	AFRICAN	~ 1976	NONE	Capture
					FERNDALE	~ 1976	_____	Transfer
					DENVER	6 Aug 1976	02008	Transfer
						17 Aug 1976		Death
				[Death by: Self-inflicted injuries † Unknown † Respiratory † Fungal]				
49	F	~ 1975	WILD	WILD	AFRICAN	~ 1976	NONE	Capture
					FERNDALE	~ 1976	_____	Transfer
					DENVER	6 Aug 1976	02009	Transfer
						19 Sep 1979		Death
				[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]				
50	M	~ 1975	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					FERNDALE	~ 1977	_____	Transfer
					CLEVELAND	23 Mar 1977	_____	Transfer
						13 Jun 1979		Death
				[Death by: Unknown means]				
51	M	~ 1975	WILD	WILD	AFRICAN	~ 1976	NONE	Capture

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					METROZOO	1 Jan 1976	602	Transfer
						4 Feb 1989		Death
					[Death by: Unknown means]			
52	F	~ 1976	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					FERNDALE	~ 1977	_____	Transfer
					CLEVELAND	23 Mar 1977	_____	Transfer
					SEATTLE	22 Sep 1983	4032	Transfer
						1 Oct 1987		Death
					[Death by: Unknown means]			
53	F	~ 1976	WILD	WILD	KENYA	~ 1977	NONE	Capture
					ROBERTSE	~ 1977	_____	Transfer
					CHICAGOBR	13 Jan 1977	23581	Transfer
					DENVER	4 Nov 1977	02906	Transfer
					PHILADELP	13 Feb 1980	201391	Transfer
						4 Dec 1992		Death
					[Death by: Unknown means]			
54	M	~ 1976	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					FERNDALE	~ 1980	_____	Transfer
					KANSASCTY	11 May 1980	B479	Transfer
						21 Jun 1980		Death
					[Death by: Injury from exhibit mate † Bury † Generalized † Trauma]			
55	F	~ 1976	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					FERNDALE	~ 1980	_____	Transfer
					KANSASCTY	11 Jan 1980	B480	Transfer
						9 Aug 1982		Death
					[Death by: Environ/Behav conditions † Incinerate † Unknown (after necropsy)]			
56	F	~ 1976	WILD	WILD	AFRICAN	~ 1978	NONE	Capture
					FERNDALE	~ 1978	_____	Transfer
					SEATTLE	5 Dec 1978	20933	Transfer
						24 Nov 1979		Death
					[Death by: Unknown means]			
57	F	~ 1976	WILD	WILD	AFRICAN	~ 1979	NONE	Capture

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					CHASE B	~ 1979	_____	Transfer
					DALLAS	22 Oct 1979	002024	Transfer
58	M	~ 1977	WILD	WILD	AFRICAN	~ 1978	NONE	Capture
					FERNDALE	~ 1978	_____	Transfer
					SEATTLE	5 Dec 1978	20932	Transfer
						17 Feb 1982		Death
					[Death by: Injury from predator † Unknown † Generalized † Trauma]			
59	M	~ 1977	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					FERNDALE	~ 1980	_____	Transfer
					KANSASCTY	25 Jun 1980	B533	Transfer
					FERNDALE	28 Sep 1981	_____	ltf
60	F	~ 1977	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					FERNDALE	~ 1980	_____	Transfer
					KANSASCTY	25 Jun 1980	B534	Transfer
					FERNDALE	28 Sep 1981	_____	ltf
61	F	~ 1977	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					BLUE RIB	~ 1980	_____	Transfer
					KANSASCTY	24 Jul 1980	B536	Transfer
						21 Jan 1984		Death
					[Death by: Other/Unknown † Incinerate † Unknown (after necropsy)]			
62	F	~ 1977	WILD	WILD	AFRICAN	~ 1979	NONE	Capture
					FERNDALE	~ 1979	_____	Transfer
					FRANKLINP	22 Feb 1979	79A046	Transfer
						8 Aug 1979		Death
					[Death by: Infection associated † Unknown † Generalized † Trauma]			
63	M	~ 1977	WILD	WILD	AFRICAN	~ 1979	NONE	Capture
					FERNDALE	~ 1979	_____	Transfer
					FRANKLINP	22 Feb 1979	79A045	Transfer
						1 Nov 1979		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
64	M	~ 1978	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					BLUE RIB	~ 1980	_____	Transfer

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					KANSASCTY	24 Jul 1980	B535	Transfer
						30 Dec 1983		Death
					[Death by: Infection associated † Incinerate † Hemic/Lymph † Unknown after necropsy]			
65	M	~ 1978	WILD	WILD	AFRICAN	~ 1980	NONE	Capture
					BRADENTON	~ 1980		Transfer
					SEATTLE	13 Feb 1980	1123	Transfer
						1 Feb 1983		Death
					[Death by: Unknown means]			
66	M	~ 1978	WILD	WILD	AFRICAN	~ 1989	NONE	Capture
					FERNDAL	~ 1989		Transfer
					CLEVELAND	5 Sep 1989	840913	Transfer
					PHOENIX	14 Apr 1992	6332	Transfer
					DALLAS	9 May 2002	02E334	Transfer
					METROZOO	5 Sep 2002	B20152	Transfer
						~30 Sep 2007		Death
					[Death by: Infection associated † Unknown † Cardiovascular † Circulatory, secondary]			
67	M	~ 1980	WILD	WILD	TANZANIA	~ 1985	NONE	Capture
					MATTICE R	~ 1985		Transfer
					AUDUBON	8 Mar 1985	719	Transfer
					PHOENIX	30 Mar 1995	7331	Transfer
						25 Oct 2001		Death
					[Death by: Infection associated † Unknown † Respiratory † Fungal]			
68	M	~ 1980	WILD	WILD	TANZANIA	~ 1985	NONE	Capture
					MATTICE R	~ 1985		Transfer
					AUDUBON	8 Mar 1985	720	Transfer
						26 Jan 1993		Death
					[Death by: Injury from predator † Unknown † Generalized † Trauma]			
69	M	~ 1980	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					NORTHLAND	~ 1985		Transfer
					DALLAS	27 Nov 1985	854530	Transfer
						11 Jun 2000		Death
					[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]			
70	F	~ 1980	WILD	WILD	KENYA	~ 1983	NONE	Capture

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				FERNDALE	~ 1983	18793	Transfer	
				CLEVELAND	7 Dec 1983	831205	Transfer	
				OKLAHOMA	12 Oct 1989	514609	Transfer	
					6 Mar 1995		Death	
				[Death by: Euthanasia (medical) † Unknown † No necropsy planned]				
71	M	~ 1981	WILD	WILD	AFRICAN	~ 1983	NONE	Capture
					FERNDALE	~ 1983	_____	Transfer
					SEATTLE	7 Dec 1983	4066	Transfer
						6 Mar 1990		Death
				[Death by: Anesth/Restraint assoc † Unknown † Cardiovascular † Circulatory, secondary]				
72	F	~ 1981	WILD	WILD	E.AFRICA	~ 1983	NONE	Capture
					FERNDALE	~ 1983	_____	Transfer
					CLEVELAND	7 Dec 1983	346	Transfer
						28 May 1984		Death
				[Death by: Injury from predator † Unknown † Generalized † Trauma]				
73	F	~ 1982	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					FORTUNE	~ Sep 1984	_____	Transfer
					SANDIEGOZ	11 Oct 1984	026643	Transfer
					SD-WAP	29 Aug 1986	026643	Transfer
						3 Sep 1986		Death
				[Death by: Injury from predator † Unknown † Generalized † Trauma]				
74	M	~ 1982	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					FORTUNE	~ 1984	_____	Transfer
					SANDIEGOZ	11 Oct 1984	026642	Transfer
						29 Aug 1986		Death
				[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]				
75	M	~ 1982	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					NORTHLAND	~ 1985	_____	Transfer
					OKLAHOMA	5 Mar 1985	325007	Transfer
						9 Nov 1992		Death
				[Death by: Infection associated † Unknown † Respiratory † Circulatory, secondary]				
76	F	~ 1982	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					NORTHLAND	~ 1985	_____	Transfer

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				OKLAHOMA	3 May 1985	325108	Transfer	
					4 Dec 1985	325108	Transfer	
					23 Jul 1989		Death	
				[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]				
77	F	~ 1982	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					FERNDALE	~ 1984	_____	Transfer
					PHOENIX	15 Aug 1984	4372	Transfer
						19 Nov 1987		Death
				[Death by: Other/Unknown † Unknown † Generalized † Trauma]				
78	F	~ 1982	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					FERNDALE	~ 1984	_____	Transfer
					PHOENIX	4 Dec 1984	4434	Transfer
					STCATHERN	6 Mar 2003	S03008	Transfer
					METROZOO	7 Jul 2005	B50373	Transfer
						28 May 2012		Death
				[Death by: Euthanasia (medical) † Incinerate † Musculoskeletal † Trauma † Necropsy received]				
79	F	~ 1982	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					WORLDWIDE	~ 1984	_____	Transfer
					BALTIMORE	26 Sep 1984	85533	Transfer
						11 Apr 1993		Death
				[Death by: Infection associated † Unknown † Generalized † Trauma]				
80	F	~ 1983	WILD	WILD	TANZANIA	~ 1985	NONE	Capture
					MATTICE R	~ 1985	_____	Transfer
					AUDUBON	8 Mar 1985	721	Transfer
					PHOENIX	30 Mar 1995	7332	Transfer
					DALLAS	9 May 2002	02E335	Transfer
					METROZOO	15 Sep 2002	B20153	Transfer
						12 May 2005		Death
				[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]				
81	M	~ 1983	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					ALENTADO	~ 1985	_____	Transfer
					DALLAS	25 Aug 1985	854479	Transfer
						13 Jul 1989		Death
				[Death by: Infection associated † Unknown † Generalized † Trauma]				

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82	F	~ 1983	WILD	WILD	AFRICAN ALENTADO DALLAS	~ 1985 ~ 1985 25 Aug 1985 17 Aug 1989	NONE _____	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
83	M	~ 1983	WILD	WILD	AFRICAN FERNDALE SD-WAP	~ 1984 ~ 1984 6 Sep 1984 9 Jan 1986	NONE _____	Capture Transfer Transfer Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
84	F	~ 1983	WILD	WILD	AFRICAN FERNDALE SD-WAP	~ 1984 ~ 1984 6 Sep 1984 11 Jul 1986	NONE _____	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Incinerate † Musculoskeletal † Trauma]								
85	F	~ 1983	WILD	WILD	AFRICAN FERNDALE SD-WAP	~ 1984 ~ 1984 6 Sep 1984 4 Mar 1985	NONE _____	Capture Transfer Transfer Death
[Death by: Injury from predator † Incinerate † Generalized † Trauma]								
86	F	~ 1983	WILD	WILD	AFRICAN FOUTS J ASHEBORO	~ 1984 ~ 1984 5 Jan 1984 20 Jul 1987	NONE _____	Capture Transfer Transfer Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]								
87	F	~ 1983	WILD	WILD	AFRICAN FOUTS J ASHEBORO STCATHERN NZP-WASH	~ 1984 ~ 1984 5 Jan 1984 30 Sep 1994 24 Mar 2005 21 Jan 2011	NONE _____	Capture Transfer Transfer Transfer Transfer Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]								

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88	F	~ 1983	WILD	WILD	AFRICAN	~ 1984	NONE	Capture
					FOUTS J	~ 1984	_____	Transfer
					ASHEBORO	5 Jan 1984	20672	Transfer
					STCATHERN	30 Sep 1994	945034	Transfer
						21 Jul 1999		Death
[Death by: Unknown means]								
89	M	~ 1983	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					MATTICE R	~ 1985	_____	Transfer
					SEATTLE	8 Mar 1985	4379	Transfer
						15 Mar 1987		Death
[Death by: Unknown means]								
90	F	~ 1983	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					MATTICE R	~ 1985	_____	Transfer
					SEATTLE	8 Mar 1985	4380	Transfer
						7 Feb 1991		Death
[Death by: Anesth/Restraint assoc † Unknown † Generalized † Unknown after necropsy]								
91	F	~ 1983	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					NORTHLAND	~ 1985	_____	Transfer
					AUDUBON	26 Jun 1985	762	Transfer
					PHOENIX	30 Mar 1995	7333	Transfer
						2 Jan 1996		Death
[Death by: Euthanasia (medical) † Given to an institution: FIELD MUSEUM, CHICAGO #380020 † Musculoskeletal † Trauma]								
92	F	~ 1983	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					NORTHLAND	~ 1985	_____	Transfer
					AUDUBON	26 Jun 1985	763	Transfer
						7 Jan 1991		Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
93	M	~ 1983	WILD	WILD	TANZANIA	~ 1984	NONE	Capture
					FOUTS J	~ 1984	_____	Transfer
					ASHEBORO	20 Jul 1984	20748	Transfer
						9 Nov 1993		Death
[Death by: Injury from predator † Unknown † Generalized † Trauma]								

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94	M	~ 1982	WILD	WILD	AFRICAN NORTHLAND NZP-WASH	~ 1985 ~ 1985 18 Jul 1985 1 Jan 2000	NONE _____ 209206	Capture Transfer Transfer Death
[Death by: Anesth/Restraint assoc † Incinerate † Cardiovascular † Circulatory, secondary]								
95	F	~ 1983	WILD	WILD	AFRICAN NORTHLAND NZP-WASH	~ 1985 ~ 1985 18 Jul 1985 ~ Feb 2007	NONE _____ 209207	Capture Transfer Transfer Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]								
96	F	~ 1983	WILD	WILD	AFRICAN FERNDALE PHOENIX	~ 1984 ~ 1984 4 Dec 1984 27 Sep 1993	NONE _____ 4435	Capture Transfer Transfer Death
[Death by: Infection associated † Bury † Generalized † Bacterial]								
97	M	~ 1983	WILD	WILD	AFRICAN WORLDWIDE BALTIMORE	~ 1984 ~ 1984 26 Sep 1984 26 Jan 1985	NONE _____ 85532	Capture Transfer Transfer Death
[Death by: Infection associated † Unknown † Urinary † Nutrition]								
98	M	~ 1983	WILD	WILD	AFRICAN ZOO IMPRT BALTIMORE	~ 1985 ~ 1985 7 Mar 1985 27 Oct 1992	NONE _____ 85700	Capture Transfer Transfer Death
[Death by: Infection associated † Unknown † Generalized † Nutrition]								
99	F	~ 1984	WILD	WILD	AFRICAN RON BROWN SD-WAP	~ 1986 ~ 1986 11 Jul 1986	NONE _____ 029555	Capture Transfer Transfer
100	F	~ 1984	WILD	WILD	AFRICAN NORTHLAND SD-WAP	~ 1986 ~ 1986 11 Jul 1986 24 Nov 1986	NONE _____ 029556	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Unknown after necropsy]								

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101	M	~ 1984	WILD	WILD	AFRICAN NORTHLAND ASHEBORO	~ 1985 ~ 1985 29 May 1985 16 Feb 1991	NONE _____ 20904	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Musculoskeletal † Trauma]								
102	M	~ 1984	WILD	WILD	TANZANIA NORTHLAND ASHEBORO	~ 1985 ~ 1985 24 Aug 1985 8 Nov 1991	NONE _____ 20966	Capture Transfer Transfer Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Toxicity]								
103	M	~ 1984	WILD	WILD	AFRICAN ZEEHANDLR DETROIT	~ 1985 ~ 1985 24 Aug 1985 26 Dec 1985	NONE _____ 1535	Capture Transfer Transfer Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Toxicity]								
104	F	~ 1984	WILD	WILD	AFRICAN ZEEHANDLR DETROIT ASHEBORO	~ 1985 ~ 1985 24 Aug 1985 29 Mar 1989 3 Jun 1992	NONE _____ 1536 21336	Capture Transfer Transfer Transfer Death
[Death by: Injury from predator † Unknown † Unknown (after necropsy)]								
105	F	~ 1985	WILD	WILD	AFRICAN NORTHLAND SANDIEGOZ SD-WAP	~ Dec 1986 ~ Dec 1986 17 Jan 1987 17 Feb 1987 7 Apr 1990	NONE _____ 387006 387006	Capture Transfer Transfer Transfer Death
[Death by: Injury from predator † Unknown † Generalized † Trauma]								
106	F	~ 1985	WILD	WILD	AFRICAN NORTHLAND SANDIEGOZ SD-WAP	~ 1987 ~ 1987 17 Jan 1987 17 Feb 1987 15 Jul 1998	NONE _____ 387007 387007	Capture Transfer Transfer Transfer Death
[Death by: Unknown means]								

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107	M	~ 1985	WILD	WILD	AFRICAN FOUTS J SANDIEGOZ SD-WAP	~ 1987 ~ 1987 23 Mar 1987 23 Apr 1987 24 May 1991	NONE _____ 387165 387165	Capture Transfer Transfer Transfer Death
[Death by: Infection associated † Unknown † Generalized † Trauma]								
108	F	~ 1985	WILD	WILD	AFRICAN FOUTS J SANDIEGOZ SD-WAP	~ 1987 ~ 1987 23 Mar 1987 23 Apr 1987 18 May 2009	NONE _____ 387166 387166	Capture Transfer Transfer Transfer Death
[Death by: Infection associated † Unknown † Reproductive † Toxicity]								
109	F	~ 1985	WILD	WILD	AFRICAN FOUTS J CINCINNAT	~ 1987 ~ Jun 1987 15 Jun 1987 15 May 1992	NONE _____ 287947	Capture Transfer Transfer Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
110	F	~ 1985	WILD	WILD	TANZANIA FERNDAL NY BRONX STCATHERN	~ 1986 ~ 1986 1 Aug 1986 14 Aug 1986 15 Apr 1993	NONE _____ 862313 862313	Capture Transfer Transfer Transfer Death
[Death by: Injury from predator † Unknown † Generalized † Trauma]								
111	F	~ 1985	WILD	WILD	AFRICAN FERNDAL NY BRONX STCATHERN	~ 1986 ~ 1986 1 Aug 1986 14 Aug 1986 5 Oct 1996	NONE _____ 862314 862314	Capture Transfer Transfer Transfer Death
[Death by: Injury from exhibit mate † Bury † Generalized † Trauma]								
112	F	~ 1985	WILD	WILD	TANZANIA FERNDAL NY BRONX STCATHERN	~ 1986 ~ 1986 1 Aug 1986 14 Aug 1986	NONE _____ 862315 862315	Capture Transfer Transfer Transfer

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					9 Dec 1990		Death	
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
113	F	~ 1985	WILD	WILD	TANZANIA	~ 1986	NONE	Capture
					FERNDALE	~ 1986	_____	Transfer
					NY BRONX	1 Aug 1986	862316	Transfer
					STCATHERN	14 Aug 1986	862316	Transfer
						12 Oct 1986		Death
					[Death by: Unknown means]			
114	F	~ 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					NORTHLAND	~ 1987	_____	Transfer
					LOWRY	12 Nov 1987	200209	Transfer
					FORTWORTH	24 Jan 1990	01681	Transfer
						8 Apr 1999		Death
					[Death by: Euthanasia (medical) † Unknown † Urinary † Unknown after necropsy]			
115	F	~ 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					NORTHLAND	~ 1987	_____	Transfer
					LOWRY	12 Nov 1987	200210	Transfer
					FORTWORTH	24 Jan 1990	01682	Transfer
					NZP-WASH	29 Sep 2004	215326	Transfer
						15 Apr 2011		Death
					[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]			
116	M	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
					FOUTS J	~ 1987	_____	Transfer
					BATONROUG	25 Jun 1987	5997	Transfer
						21 Jun 1990		Death
					[Death by: Unknown means]			
117	F	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
					FOUTS J	~ 1987	_____	Transfer
					BATONROUG	25 Jun 1987	5998	Transfer
					BULVERDE	9 Apr 1998	_____	Transfer
					SAFARI W	6 Oct 1998	298040	Transfer
						23 Jan 2001		Death
					[Death by: Unknown means]			

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118	F	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
				NORTHLAND		~ 1987	_____	Transfer
				SAN FRAN	15 Jan 1987	287003		Transfer
				TUCSON	12 Dec 1987	872616		Transfer
				NZP-WASH	26 Mar 1990	211248		Transfer
					26 Oct 1993			Death
				[Death by: Injury from predator † Incinerate † Generalized † Unknown after necropsy]				
119	F	~ 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
				NORTHLAND		~ 1987	_____	Transfer
				SAN FRAN	15 Jan 1987	287004		Transfer
				TUCSON	12 Dec 1987	872619		Transfer
				NZP-WASH	26 Mar 1990	211249		Transfer
				FORTWORTH	14 Dec 2004	203720		Transfer
					12 Aug 2007			Death
				[Death by: Infection associated † Unknown † Integumentary † Trauma]				
120	M	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
				FERNDALE		~ 1987	_____	Transfer
				NY BRONX	27 Mar 1987	872042		Transfer
				STCATHERN	27 Apr 1987	872042		Transfer
					22 Sep 1998			Death
				[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]				
121	M	~ 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
				NORTHLAND		~ 1987	_____	Transfer
				PHOENIX	3 Jul 1987	5069		Transfer
					13 May 1988			Death
				[Death by: Unknown means]				
122	M	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
				NORTHLAND		~ 1987	_____	Transfer
				PHILADELP	4 Jul 1987	203469		Transfer
					19 Jan 1988			Death
				[Death by: Infection associated † Unknown † Generalized † Circulatory, secondary]				
123	F	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
				NORTHLAND		~ 1987	_____	Transfer

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					SAN FRAN	15 Jan 1987	287060	Transfer
					TUCSON	12 Dec 1987	872617	Transfer
					NORTHLAND	8 Nov 1988	_____	Transfer
					SCHNEIDER	8 Nov 1988	_____	Transfer
						~ 1989		Death
					[Death by: Unknown means]			
124	F	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
					NORTHLAND	~ 1987	_____	Transfer
					SAN FRAN	15 Jan 1987	287061	Transfer
					TUCSON	12 Dec 1987	872618	Transfer
					NORTHLAND	8 Nov 1988	_____	Transfer
					SCHNEIDER	8 Nov 1988	_____	Transfer
					WALDON W	~ 1989	_____	Transfer
						~ 1989		Death
					[Death by: Unknown means]			
125	M	~ 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					FOUTS J	~ 1987	_____	Transfer
					CINCINNAT	15 Jun 1987	287948	Transfer
						15 Jun 1991		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
126	F	~ 1985	WILD	WILD	TANZANIA	~ 1987	NONE	Capture
					NORTHLAND	~ 1987	_____	Transfer
					CLEVELAND	3 Jul 1987	_____	Transfer
						25 Nov 1987		Death
					[Death by: Infection associated † Unknown † Cardiovascular † Circulatory, secondary]			
127	M	~ 1985	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					WALDON W	~ 1987	_____	ltf
128	F	~ 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					WALDON W	~ 1987	_____	ltf
129	M	30 Jul 1999	94	119	NZP-WASH	30 Jul 1999	214398	Hatch
						2 Aug 1999		Death
					[Death by: Infection associated † Unknown † Urinary † Nutrition]			

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130	M	~ 1986	WILD	WILD	TANZANIA FOUTS J CALDWELL	~ 1987 ~ 1987 25 Jun 1987 7 Oct 1987	NONE _____ 001065	Capture Transfer Transfer Death
[Death by: Anesth/Restraint assoc † Unknown † Generalized † Unknown after necropsy]								
131	F	~ 1986	WILD	WILD	TANZANIA FOUTS J CALDWELL DALLAS	~ 1987 ~ 1987 25 Jun 1987 6 Jun 1994 30 Jan 2012	NONE _____ 001066 948952	Capture Transfer Transfer Transfer Death
[Death by: Unknown means]								
132	M	~ 1986	WILD	WILD	AFRICAN DEALER TOLEDO STCATHERN	~ 1987 ~ 1987 26 Jun 1987 4 Jul 1991 15 Mar 2003	NONE _____ 871526 915017	Capture Transfer Transfer Transfer Death
[Death by: Unknown means]								
133	F	~ 1986	WILD	WILD	AFRICAN DEALER TOLEDO STCATHERN	~ 1987 ~ 1987 26 Jun 1987 4 Jul 1991 16 Feb 2003	NONE _____ 871527 915018	Capture Transfer Transfer Transfer Death
[Death by: Other/Unknown † Unknown † Sense organs † Mechanical abnormality]								
134	?	~ 1986	WILD	WILD	AFRICAN DEALER OMAHA	~ 1987 ~ 1987 21 May 1987 14 Apr 1988	NONE _____ 5058	Capture Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Musculoskeletal † Trauma]								
135	M	~ 1986	WILD	WILD	AFRICAN DEALER OMAHA	~ 1987 ~ 1987 21 May 1987 10 Jun 1992	NONE _____ 5059	Capture Transfer Transfer Death
[Death by: Infection associated † Unknown † Digestive † Toxicity]								

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136	F	~ 1986	WILD	WILD	AFRICAN DEALER DALLAS	~ 1988 ~ 1988 18 Oct 1988 8 Nov 2009	NONE _____	Capture Transfer 886438 Transfer Death
[Death by: Infection associated † Unknown † Digestive † Mechanical abnormality]								
137	F	~ 1986	WILD	WILD	AFRICAN NORTHLAND KNOXVILLE NORTHLAND SCHNEIDER	~ 1987 ~ Jul 1987 17 Jul 1987 1 May 1989 ~ May 1989 ~ 1990	NONE _____	Capture Transfer 92 Transfer Transfer Transfer Death
[Death by: Unknown means]								
138	F	~ 1986	WILD	WILD	AFRICAN NORTHLAND KNOXVILLE	~ 1987 ~ 1987 17 Jul 1987 11 Oct 1988	NONE _____	Capture Transfer 93 Transfer Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
139	F	~ 1986	WILD	WILD	AFRICAN GRND PRAI OMAHA AUDUBON METROZOO	~ 1988 ~ 1988 8 Dec 1988 28 Apr 1999 15 May 2003 25 Mar 2012	NONE 23282 5257 2550 B30080	Capture Transfer Transfer Transfer Transfer Death
[Death by: Injury from exhibit mate † Unknown † Reproductive † Trauma † Necropsy received]								
140	M	~ 1987	WILD	WILD	AFRICAN V.D.BRINK SD-WAP	~ 1990 ~ 1990 22 Jun 1990 19 Mar 1991	NONE _____	Capture Transfer 890261 Transfer Death
[Death by: Infection associated † Unknown † Digestive † Trauma]								
141	M	~ 1988	WILD	WILD	AFRICAN V.D.BRINK SD-WAP DALLAS	~ 1988 ~ 1988 22 Jun 1990 20 Nov 2000	NONE _____	Capture Transfer 890262 Transfer 00D626 Transfer

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						~ Mar 2007	Death
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]	
142	M	~ 1988	WILD	WILD	AFRICAN	~ 1990	NONE Capture
					NY BRONX	~ 1990	905031 Transfer
					STCATHERN	3 Aug 1990	905031 Transfer
						16 May 2000	Death
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]	
143	M	~ 1988	WILD	WILD	AFRICAN	~ 1990	NONE Capture
					NY BRONX	~ 1990	905032 Transfer
					STCATHERN	3 Aug 1990	905032 Transfer
					NZP-WASH	21 Mar 2000	214461 Transfer
144	M	~ 1987	WILD	WILD	AFRICAN	~ 1988	NONE Capture
					WALDON W	~ 1988	_____ Transfer
					FOUTS J	~ Jan 1990	_____ Transfer
					DALLAS	26 Jan 1990	906736 Transfer
						13 May 1997	Death
						[Death by: Injury from exhibit mate † Unknown † Cardiovascular † Trauma]	
145	F	~ 1987	WILD	WILD	AFRICAN	~ 1988	NONE Capture
					WALDON W	~ 1988	_____ Transfer
					FOUTS J	~ Jan 1990	_____ Transfer
					DALLAS	26 Jan 1990	906737 Transfer
					CLEVELAND	26 May 1999	990545 Transfer
						10 Feb 2000	Death
						[Death by: Euthanasia (medical) † Unknown † Necropsy planned later † Unknown after necropsy]	
146	F	~ 1987	WILD	WILD	AFRICAN	~ 1988	NONE Capture
					WALDON W	~ 1988	_____ Transfer
					FOUTS J	~ Jan 1990	_____ Transfer
					DALLAS	26 Jan 1990	906738 Transfer
						26 Jan 1990	Death
						[Death by: Died in transit † Unknown † No necropsy planned]	
147	M	~ 1990	WILD	WILD	TANZANIA	~ 1991	NONE Capture
					FOUTS J	~ 1991	_____ Transfer
					BATONROUG	8 May 1991	6736 Transfer

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					BULVERDE	9 Apr 1998	_____	Transfer
					SAFARI W	6 Oct 1998	298039	Transfer
						1 Feb 2001		Death
					[Death by: Unknown means]			
148	M	22 Apr 1992	69	57	DALLAS	22 Apr 1992	927592	Hatch
						30 Mar 1995		Death
					[Death by: Infection associated † Mounted or Preserved: † Musculoskeletal † Bacterial]			
149	M	14 May 1993	69	57	DALLAS	14 May 1993	938293	Hatch
						2 Jul 1995		Death
					[Death by: Unknown means]			
150	?	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SAN ANTON	10 Jul 1969	_____	Transfer
						28 Nov 1972		Death
					[Death by: Unknown means]			
151	?	~ 1968	WILD	WILD	AFRICAN	~ 1969	NONE	Capture
					FERNDALE	~ 1969	_____	Transfer
					SAN ANTON	10 Jul 1969	_____	Transfer
						30 Nov 1972		Death
					[Death by: Unknown means]			
152	M	~ 1994	WILD	WILD	TANZANIA	~ Apr 1996	NONE	Capture
					MILLER R	~ Apr 1996	_____	Transfer
					KANSASCTY	30 May 1996	203537	Transfer
					DALLAS	17 Dec 2005	05G219	Transfer
153	M	~ 1994	WILD	WILD	TANZANIA	~ Apr 1996	NONE	Capture
					MILLER R	~ Apr 1996	_____	Transfer
					KANSASCTY	30 May 1996	203536	Transfer
					STCATHERN	28 Sep 2003	S03080	Transfer
					METROZOO	7 Jul 2005	B50372	Transfer
						5 Oct 2012		Death
					[Death by: Euthanasia (medical) † Mounted or Preserved: UNKNOWN † Musculoskeletal † Trauma † Necropsy received]			

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154	M	~ Mar 1996	WILD	WILD	AFRICAN KRAAIFONT JOHANSBRG	~ Mar 1996 15 Mar 1996 13 Jul 2001	NONE 960135 4908	Capture Transfer Transfer
155	M	~ 1985	WILD	WILD	AFRICAN RUSHDEN HIWI ENT COLCHESTR	~ 1987 5 Feb 1987 ~ Mar 1987 19 Mar 1987 29 Nov 1998	NONE 4861 <u> </u> 333	Capture Transfer Transfer Transfer Death
[Death by: Unknown means]								
156	F	~ 1984	WILD	WILD	AFRICAN HIWI ENT RUSHDEN COLCHESTR	~ 1986 ~ Jul 1986 7 Jul 1986 22 Dec 1986 10 Oct 1995	NONE <u> </u> 4332 335	Capture Transfer Transfer Transfer Death
[Death by: Unknown means]								
157	F	~ 1984	WILD	WILD	AFRICAN HIWI ENT RUSHDEN COLCHESTR	~ 1986 ~ Jul 1986 7 Jul 1986 22 Dec 1986 2 Mar 1991	NONE <u> </u> 4331 334	Capture Transfer Transfer Transfer Death
[Death by: Unknown means]								
158	F	6 Jun 1989	UNK	UNK	NURNBERG DUISBURG	6 Jun 1989 13 Nov 1992 6 Jul 1994	B00231 1958	Hatch Transfer Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
159	M	~ 1986	WILD	WILD	AFRICAN DUISBURG	~ 1987 1 Jan 1988 14 Feb 2001	NONE 1959	Capture Transfer Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
160	M	~ 1991	UNK	UNK	UNKNOWN KLEIN S CAMBRON	~ 1991 ~ 1993 2 Dec 1993 19 Nov 1997	<u> </u> <u> </u> 81	Hatch Transfer Transfer Death

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[Death by: Self-inflicted injuries † Incinerate † No necropsy planned]

161	F	~ 1987	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					HIWI ENT	~ Feb 1987	_____	Transfer
					RUSHDEN	5 Feb 1987	4862	Transfer
					HAYLE	16 Jul 1987	S192	Transfer
						12 Oct 1992		Death

[Death by: Unknown means]

162	M	~ 1991	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
					KLEIN S	~ 1993	_____	Transfer
					CAMBRON	2 Dec 1993	261	Transfer
						9 Jul 2002		Death

[Death by: Self-inflicted injuries † Unknown † Unknown (after necropsy)]

163	F	~ 1991	UNK	UNK	UNKNOWN	~ 1991	_____	Hatch
					KLEIN S	~ 1993	_____	Transfer
					CAMBRON	2 Dec 1993	82	Transfer
					DUISBURG	30 Jun 1998	3647	Transfer
						4 May 1999		Death

[Death by: Unknown means]

164	F	~ 1991	WILD	WILD	TANZANIA	~ 1991	NONE	Capture
					KLEIN S	~ 1993	_____	Transfer
					CAMBRON	2 Dec 1993	262	Transfer
						~15 Jul 2007		Death

[Death by: Unknown means]

165	F	~ 1991	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
					KLEIN S	~ 1993	_____	Transfer
					CAMBRON	2 Dec 1993	263	Transfer
						11 Jun 2000		Death

[Death by: Injury from predator † Unknown † Unknown (after necropsy)]

166	F	~ 1991	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
					KLEIN S	~ 1993	_____	Transfer
					CAMBRON	2 Dec 1993	264	Transfer
						~ Nov 1994		Death

[Death by: Infection associated † Unknown † Digestive † Trauma]

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173	F	~ 1975	WILD	WILD	AFRICAN RUSHDEN PAIGNTON RODE	~ 1977 ~ 1977 14 Nov 1977 27 Nov 1990	NONE <u> </u> 351 <u> </u>	Capture Transfer Transfer ltf
174	M	~ 1968	WILD	WILD	AFRICAN RUSHDEN PAIGNTON	~ 1970 ~ 1970 8 Jul 1970 22 Dec 1989	NONE <u> </u> 350	Capture Transfer Transfer Death [Death by: Infection associated † Unknown † Generalized † Trauma]
175	M	~ 1965	WILD	WILD	AFRICAN V.D.BRINK WUPPERTAL	~ 1967 ~ 1967 31 Aug 1967 4 Sep 1968	NONE <u> </u> 67463	Capture Transfer Transfer Death [Death by: Infection associated † Unknown † Digestive † Metabolism]
176	F	~ 1965	WILD	WILD	AFRICAN V.D.BRINK WUPPERTAL	~ 1967 ~ 1967 31 Aug 1967 7 Sep 1982	NONE <u> </u> 67464	Capture Transfer Transfer Death [Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]
177	M	~ 1968	WILD	WILD	AFRICAN V.D.BRINK WUPPERTAL	~ 1970 ~ 1970 26 Aug 1970 28 Jan 1972	NONE <u> </u> 70482	Capture Transfer Transfer Death [Death by: Infection associated † Unknown † Generalized † Bacterial]
178	F	~ 1968	WILD	WILD	AFRICAN V.D.BRINK WUPPERTAL	~ 1970 ~ 1970 26 Aug 1970 24 Feb 1976	NONE <u> </u> 70484	Capture Transfer Transfer Death [Death by: Unknown means]
179	M	~ 1970	WILD	WILD	AFRICAN BRETTEEN WUPPERTAL	~ Dec 1971 ~ Dec 1971 18 May 1972 26 Mar 1974	NONE <u> </u> 72477A	Capture Transfer Transfer Death

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[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
180	F	~ 1970	WILD	WILD	AFRICAN	~ Dec 1971	NONE	Capture
					BRETTEN	~ Dec 1971	_____	Transfer
					WUPPERTAL	18 May 1972	72477B	Transfer
						9 Nov 1982		Death
[Death by: Infection associated † Unknown † Generalized † Fungal]								
181	M	~ 1972	WILD	WILD	AFRICAN	~ 1974	NONE	Capture
					V.D.BRINK	~ 1974	_____	Transfer
					WUPPERTAL	28 Sep 1974	74445A	Transfer
						2 Mar 1975		Death
[Death by: Unknown means]								
182	M	~ 1973	WILD	WILD	AFRICAN	~ Dec 1974	NONE	Capture
					V.D.BRINK	~ Dec 1974	_____	Transfer
					WUPPERTAL	20 May 1975	74445B	Transfer
						4 Jul 1989		Death
[Death by: Other/Unknown † Unknown † Nervous † Unknown after necropsy]								
183	F	~ 1984	WILD	WILD	AFRICAN	~ Dec 1985	NONE	Capture
					BODE W	~ Dec 1985	_____	Transfer
					WUPPERTAL	23 Jan 1986	86402	Transfer
						20 Oct 1987		Death
[Death by: Unknown means]								
184	F	2 Aug 1989	UNK	UNK	NURNBERG	2 Aug 1989	B00235	Hatch
					WUPPERTAL	27 Feb 1991	91402D	Transfer
						10 Aug 1992		Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
185	F	27 Jun 1990	UNK	UNK	NURNBERG	27 Jun 1990	B00238	Hatch
					WUPPERTAL	27 Feb 1991	91402C	Transfer
						29 Jul 1991		Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
186	M	10 Jun 1990	UNK	UNK	NURNBERG	10 Jun 1990	B00236	Hatch
					WUPPERTAL	27 Feb 1991	91402B	Transfer
					BERLIN TP	10 Oct 1992	B00189	Transfer

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						2 Mar 2006		Death
								[Death by: Environ/Behav conditions † Given to an institution: BERLINWIL/BERLIN TP † Necropsy planned later]
187	M	25 Jun 1990	UNK	UNK	NURNBERG	25 Jun 1990	B00237	Hatch
					WUPPERTAL	27 Feb 1991	91402A	Transfer
					BERLIN TP	12 Oct 1992	_____	Transfer
					SCHMIDING	18 Oct 1994	930202	Transfer
						22 Jun 2003		Death
								[Death by: Unknown means]
188	F	~ 1991	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
					KLEIN S	~ 1993	_____	Transfer
					BOBENHEIM	~15 Nov 1993	1536	Transfer
						~ Mar 1997		Death
								[Death by: Infection associated † Unknown † Digestive † Protozoan]
189	F	~ 1991	WILD	WILD	TANZANIA	~ Oct 1993	NONE	Capture
					REIL	~ Nov 1993	_____	Transfer
					BOBENHEIM	~ Mar 1996	1535	Transfer
						~ Mar 1997		Death
								[Death by: Infection associated † Unknown † Digestive † Protozoan]
190	F	~ 1993	WILD	WILD	TANZANIA	~ Oct 1993	NONE	Capture
					KLEIN S	~ Oct 1993	_____	Transfer
					BOBENHEIM	~ Nov 1993	1537	Transfer
					NURNBERG	6 Mar 1994	B00417	Transfer
					MAGDEBURG	25 Apr 1995	700001	Transfer
						22 Jul 1996		Death
								[Death by: Unknown means]
191	M	22 Jul 1993	319	317	NURNBERG	22 Jul 1993	B00309	Hatch
					BOBENHEIM	6 Mar 1994	AA520	Transfer
						~ Jul 1994		Death
								[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
192	M	1 Sep 1996	66	80	PHOENIX	1 Sep 1996	8025	Hatch
					SD-WAP	22 Aug 1997	897394	Transfer
						26 Feb 2005		Death

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[Death by: Anesth/Restraint assoc † Unknown † Digestive † Mechanical abnormality]								
193	F	1 Sep 1996	66	78	PHOENIX	1 Sep 1996	8026	Hatch
						14 Sep 1997		Death
[Death by: Infection associated † Unknown † Respiratory † Trauma]								
194	M	~ 1983	WILD	WILD	AFRICAN	~ Jun 1985	NONE	Capture
					T HART	~ Jun 1985		Transfer
					ALPHEN	1 Jul 1985	183	Transfer
						30 Oct 1995		Death
[Death by: Unknown means]								
195	M	25 Jun 1994	320	321	NURNBERG	25 Jun 1994	B00518	Hatch
					MAGDEBURG	25 Apr 1995	274002	Transfer
						4 May 2001		Death
[Death by: Infection associated † Unknown † Generalized † Circulatory, secondary]								
196	?	9 Nov 1993	MULT	MULT	NARC	9 Nov 1993	296	Hatch
						16 Nov 1993		Death
[Death by: Infection associated † Unknown † Reproductive † Bacterial]								
197	?	~ 1 Oct 1993	MULT	MULT	NARC	~ 1 Oct 1993	297	Hatch
						27 Oct 1993		Death
[Death by: Unknown means]								
198	?	~ 1 Oct 1993	MULT	MULT	NARC	~ 1 Oct 1993	298	Hatch
						27 Oct 1993		Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
199	F	~ 1961	WILD	WILD	AFRICAN	~ 1962	NONE	Capture
					MORGAN-D	~ 1962		Transfer
					BIRMINGHM	22 Nov 1963		Transfer
						29 Dec 1963		Death
[Death by: Unknown means]								
200	F	~ 1988	WILD	WILD	AFRICAN	~ 1990	NONE	Capture
					AL AIN	~ 1990		Transfer
					NARC	1 Jun 1993	305	Transfer
						31 Aug 1993		Death

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									[Death by: Infection associated † Unknown † Reproductive † Bacterial]
201	?	~ 1 Sep 1993	MULT	MULT	NARC	~ 1 Sep 1993	210	Hatch	
						1 Oct 1993		Death	
									[Death by: Infection associated † Unknown † Respiratory † Fungal]
202	?	~ 1 Oct 1993	MULT	MULT	NARC	~ 1 Oct 1993	334	Hatch	
						12 Nov 1993		Death	
									[Death by: Euthanasia (medical) † Unknown † Digestive † Nutrition]
203	?	~ 1 Aug 1993	MULT	MULT	NARC	~ 1 Aug 1993	403	Hatch	
						25 Oct 1993		Death	
									[Death by: Anesth/Restraint assoc † Unknown † Generalized † Nutrition]
204	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture	
					AL AIN	~ Jan 1990		Transfer	
					NARC	1 Jun 1993	408	Transfer	
						8 Nov 1993		Death	
									[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Unknown after necropsy]
205	M	~ 1 Jan 1991	UNK	UNK	AL AIN	~ 1 Jan 1991		Hatch	
					NARC	1 Jun 1993	428	Transfer	
						28 Apr 1997		Death	
									[Death by: Infection associated † Unknown † Generalized † Metabolism]
206	F	~ 1 Jan 1991	UNK	UNK	AL AIN	~ 1 Jan 1991		Hatch	
					NARC	1 Jun 1993	429	Transfer	
					AL AIN	15 Jun 2003		Transfer	
						21 Feb 2005		Death	
									[Death by: Unknown means]
207	F	~ 1 Jan 1991	UNK	UNK	AL AIN	~ 1 Jan 1991		Hatch	
					NARC	~ Jun 1993	430	Transfer	
					AL AIN	15 Jun 2003		Transfer	
					PRIVATE	10 Nov 2004		ltf	
208	F	~ 1 Jan 1991	UNK	UNK	AL AIN	~ 1 Jan 1991		Hatch	
					NARC	1 Jun 1993	431	Transfer	
					AL AIN	15 Jun 2003		Transfer	

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					PRIVATE	10 Nov 2004	_____	ltf
209	M	17 Oct 1992	UNK	UNK	AL AIN	17 Oct 1992	_____	Hatch
					NARC	1 Jun 1993	432	Transfer
						31 May 1994		Death
			[Death by: Anesth/Restraint assoc † Unknown † Generalized † Trauma]					
210	F	17 Sep 1992	UNK	UNK	AL AIN	17 Sep 1992	433	Hatch
					NARC	1 Jun 1993	433	Transfer
						28 Jan 2003		Death
			[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]					
211	M	~ 1 Jan 1991	UNK	UNK	AL AIN	~ 1 Jan 1991	_____	Hatch
					NARC	1 Jun 1993	434	Transfer
						30 May 1994		Death
			[Death by: Anesth/Restraint assoc † Unknown † Musculoskeletal † Trauma]					
212	M	~ 1 Jan 1992	UNK	UNK	AL AIN	~ 1 Jan 1992	_____	Hatch
					NARC	1 Jun 1993	435	Transfer
						28 Aug 1994		Death
			[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]					
213	F	~ 1 Jan 1991	UNK	UNK	AL AIN	~ 1 Jan 1991	_____	Hatch
					NARC	1 Jun 1993	436	Transfer
					AL AIN	15 Jun 2003	_____	Transfer
					PRIVATE	10 Nov 2004	_____	ltf
214	M	~ 1 Sep 1993	MULT	MULT	NARC	~ 1 Sep 1993	480	Hatch
						29 Nov 1997		Death
			[Death by: Infection associated † Unknown † Digestive † Bacterial]					
215	F	~ 1 Oct 1993	MULT	MULT	NARC	~ 1 Oct 1993	481	Hatch
						31 Oct 2008		Death
			[Death by: Infection associated † Unknown † Urinary † Nutrition]					
216	F	~ 1 Sep 1993	MULT	MULT	NARC	~ 1 Sep 1993	482	Hatch
					AL AIN	15 Jun 2003	_____	Transfer
					PRIVATE	10 Nov 2004	_____	ltf

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217	F	~ 1 Sep 1993	MULT	MULT	NARC	~ 1 Sep 1993 12 Mar 1996	483	Hatch Death
[Death by: Anesth/Restraint assoc † Unknown † Generalized † Trauma]								
218	M	9 Nov 1993	MULT	MULT	NARC AL AIN	9 Nov 1993 15 Jun 2003 27 Jul 2003	484	Hatch Transfer Death
[Death by: Unknown means]								
219	M	~ 1 Sep 1993	MULT	MULT	NARC	~ 1 Sep 1993 12 Mar 1996	485	Hatch Death
[Death by: Anesth/Restraint assoc † Unknown † Respiratory † Bacterial]								
220	M	7 Nov 1993	MULT	MULT	NARC	7 Nov 1993 1 Feb 2000	486	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Generalized † Unknown after necropsy]								
221	?	~ 1 Oct 1993	MULT	MULT	NARC	~ 1 Oct 1993 1 Nov 1993	491	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Nutrition]								
222	M	~ 1961	WILD	WILD	AFRICAN MORGAN-D BIRMINGHM	~ 1962 ~ 1962 22 Nov 1963 6 Oct 1966	NONE	Capture Transfer Transfer Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
223	F	~ 1988	WILD	WILD	AFRICAN AL AIN NARC	~ Jan 1990 ~ Jan 1990 1 Jun 1993 12 Aug 2003	NONE 617 617	Capture Transfer Transfer Death
[Death by: Died in transit † Unknown † No necropsy planned]								
224	F	~ 1988	WILD	WILD	AFRICAN AL AIN NARC SHARJAHBR PRIVATE	~ 1 Jan 1990 ~ Jan 1990 1 Jun 1993 20 Dec 2000 21 Mar 2001	NONE	Capture Transfer Transfer Transfer ltf

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225	M	~ 1988	WILD	WILD	AFRICAN	~ 1 Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	619	Transfer
						13 Nov 1995		Death
					[Death by: Anesth/Restraint assoc † Unknown † Respiratory † Metabolism]			
226	F	~ 1988	WILD	WILD	AFRICAN	~ 1 Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	620	Transfer
					AL AIN	15 Jun 2003	_____	Transfer
					PRIVATE	10 Nov 2004	_____	ltf
227	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	621	Transfer
						27 Jun 2003		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
228	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	622	Transfer
						26 Aug 1996		Death
					[Death by: Other/Unknown † Unknown † Generalized † Trauma]			
229	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	623	Transfer
						15 Jun 2002		Death
					[Death by: Euthanasia (medical) † Unknown † Generalized † Trauma]			
230	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	624	Transfer
						17 Feb 1999		Death
					[Death by: Anesth/Restraint assoc † Unknown † Generalized † Unknown after necropsy]			
231	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	625	Transfer

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						20 Jun 1996		Death
						[Death by: Anesth/Restraint assoc † Unknown † Generalized † Metabolism]		
232	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	626	Transfer
						13 Feb 1997		Death
						[Death by: Infection associated † Unknown † Reproductive † Trauma]		
233	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	627	Transfer
						15 Feb 1999		Death
						[Death by: Anesth/Restraint assoc † Unknown † Generalized † Trauma]		
234	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	628	Transfer
						4 Jan 2003		Death
						[Death by: Anesth/Restraint assoc † Unknown † No necropsy planned]		
235	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	629	Transfer
						12 May 1994		Death
						[Death by: Anesth/Restraint assoc † Unknown † Respiratory † Trauma]		
236	M	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	615	Transfer
						16 Jan 1996		Death
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]		
237	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	630	Transfer
					AL AIN	15 Jun 2003	_____	Transfer
					PRIVATE	10 Nov 2004	_____	ltf

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238	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	631	Transfer
					AL AIN	15 Jun 2003	_____	Transfer
					PRIVATE	10 Nov 2004	_____	ltf
239	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	632	Transfer
						10 Mar 2000		Death
					[Death by: Infection associated † Unknown † Generalized † Unknown after necropsy]			
240	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	633	Transfer
						26 Apr 1999		Death
					[Death by: Infection associated † Unknown † Generalized † Trauma]			
241	M	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	634	Transfer
						9 Apr 2000		Death
					[Death by: Infection associated † Unknown † Generalized † Unknown after necropsy]			
242	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	635	Transfer
						24 Nov 1994		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
243	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	636	Transfer
						17 May 1994		Death
					[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Fungal]			
244	F	~ 1988	WILD	WILD	AFRICAN	~ 1 Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	637	Transfer

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						20 Sep 2000		Death
								[Death by: Unknown means]
245	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	638	Transfer
					SHARJAHBR	20 Dec 2000	AK001	Transfer
						14 Oct 2001		Death
								[Death by: Self-inflicted injuries † Incinerate † Musculoskeletal † Trauma]
246	F	11 Oct 1994	MULT	229	NARC	11 Oct 1994	705	Hatch
						17 Jul 1999		Death
								[Death by: Unknown means]
247	M	20 Oct 1994	MULT	239	NARC	20 Oct 1994	706	Hatch
						28 Jan 1997		Death
								[Death by: Infection associated † Unknown † Respiratory † Fungal]
248	F	~ 1965	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
					V.D.BRINK	~ 1966	_____	Transfer
					BIRMINGHM	22 Sep 1966	_____	Transfer
						21 Jul 1969		Death
								[Death by: Unknown means]
249	F	~ 1988	WILD	WILD	AFRICAN	~ Jan 1990	NONE	Capture
					AL AIN	~ Jan 1990	_____	Transfer
					NARC	1 Jun 1993	616	Transfer
						26 Oct 1999		Death
								[Death by: Anesth/Restraint assoc † Unknown † Generalized † Unknown after necropsy]
250	M	12 Nov 1994	MULT	249	NARC	12 Nov 1994	707	Hatch
						30 Sep 1996		Death
								[Death by: Anesth/Restraint assoc † Unknown † Digestive † Metabolism]
251	F	21 Nov 1994	MULT	242	NARC	21 Nov 1994	708	Hatch
252	M	16 Aug 1995	MULT	245	NARC	16 Aug 1995	782	Hatch
					KHALIFA	3 Apr 2003	_____	ltf

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253	?	2 Sep 1995	205	MULT	NARC	2 Sep 1995	787	Hatch
						8 Sep 1995		Death
						[Death by: Infection associated † Unknown † Generalized † Bacterial]		
254	M	3 Sep 1995	MULT	244	NARC	3 Sep 1995	788	Hatch
					RIYADH	12 Jul 1997	970122	ltf
255	F	3 Sep 1995	MULT	239	NARC	3 Sep 1995	789	Hatch
					RIYADH	12 Jul 1997	970124	ltf
256	?	4 Sep 1995	MULT	226	NARC	4 Sep 1995	790	Hatch
						26 Feb 1996		Death
						[Death by: Infection associated † Unknown † Generalized † Trauma]		
257	F	5 Sep 1995	MULT	239	NARC	5 Sep 1995	791	Hatch
					AL AIN	15 Jun 2003	_____	Transfer
					PRIVATE	10 Nov 2004	_____	ltf
258	F	6 Sep 1995	MULT	231	NARC	6 Sep 1995	792	Hatch
						12 Apr 1997		Death
						[Death by: Infection associated † Unknown † Generalized † Trauma]		
259	F	10 Sep 1995	MULT	228	NARC	10 Sep 1995	795	Hatch
					SHARJAHBR	17 Feb 2003	AK014	Transfer
					PRIVATE	17 Feb 2003	_____	ltf
260	F	14 Sep 1995	MULT	229	NARC	14 Sep 1995	796	Hatch
					RIYADH	12 Jul 1997	970125	Transfer
						21 Feb 1999		Death
						[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]		
261	F	17 Sep 1995	MULT	223	NARC	17 Sep 1995	797	Hatch
					SHARJAHBR	17 Feb 2003	AK015	Transfer
					PRIVATE	10 Mar 2005	_____	ltf
262	M	20 Sep 1995	MULT	244	NARC	20 Sep 1995	804	Hatch
					KREFELD	20 Jul 1998	V1729	Transfer
					NURNBERG	21 Feb 2013	B03476	Transfer

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263	?	21 Sep 1995	MULT	224	NARC	21 Sep 1995 3 Oct 1995	805	Hatch Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
264	M	22 Sep 1995	MULT	244	NARC	22 Sep 1995 17 Jun 2001	807	Hatch Death
[Death by: Unknown means]								
265	?	23 Sep 1995	MULT	226	NARC	23 Sep 1995 12 Oct 1995	809	Hatch Death
[Death by: Other/Unknown † Unknown † Generalized † Trauma]								
266	M	24 Sep 1995	MULT	234	NARC	24 Sep 1995 2 Dec 1997	810	Hatch Death
[Death by: Unknown means]								
267	M	26 Sep 1995	MULT	239	NARC AL AIN	26 Sep 1995 15 Jun 2003 4 Sep 2004	811	Hatch Transfer Death
[Death by: Unknown means]								
268	?	27 Sep 1995	MULT	239	NARC	27 Sep 1995 6 Oct 1995	812	Hatch Death
[Death by: Infection associated † Unknown † Hemic/Lymph † Bacterial]								
269	M	30 Sep 1995	MULT	229	NARC	30 Sep 1995 21 May 2000	813	Hatch Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
270	?	2 Oct 1995	MULT	223	NARC	2 Oct 1995 29 May 1996	814	Hatch Death
[Death by: Anesth/Restraint assoc † Unknown † Generalized † Trauma]								
271	F	4 Oct 1995	MULT	245	NARC	4 Oct 1995 4 Jan 1998	815	Hatch Death
[Death by: Unknown means]								
272	F	4 Oct 1995	MULT	228	NARC KHALIFA	4 Oct 1995 3 Apr 2003	816	Hatch ltf

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273	F	7 Oct 1995	MULT	244	NARC KHALIFA	7 Oct 1995 3 Apr 2003	817	Hatch ltf
274	F	16 Oct 1995	MULT	229	NARC AL AIN PRIVATE	16 Oct 1995 15 Jun 2003 10 Nov 2004	818	Hatch Transfer ltf
275	M	21 Oct 1995	MULT	239	NARC	21 Oct 1995 4 Aug 1999	819	Hatch Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
276	?	26 Oct 1995	MULT	226	NARC	26 Oct 1995 9 Nov 1995	820	Hatch Death
[Death by: Unknown means]								
277	?	~24 Nov 1995	MULT	224	NARC	~24 Nov 1995 26 Nov 1995	821	Hatch Death
[Death by: Other/Unknown † Unknown † Generalized † Trauma]								
278	F	30 Nov 1995	MULT	229	NARC	30 Nov 1995 18 Sep 1998	822	Hatch Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Unknown after necropsy]								
279	M	15 Dec 1995	MULT	223	NARC MAKTOUM	15 Dec 1995 2 Jul 2002 1 Jul 2010	824 A00206	Hatch Transfer Death
[Death by: Unknown means]								
280	?	4 Aug 1996	MULT	228	NARC	4 Aug 1996 6 Aug 1996	892	Hatch Death
[Death by: Injury from predator † Unknown † Generalized † Trauma]								
281	M	12 Aug 1996	MULT	234	NARC	12 Aug 1996 13 Jan 1998	894	Hatch Death
[Death by: Unknown means]								
282	F	12 Aug 1996	MULT	244	NARC SHARJAHBR	12 Aug 1996 17 Feb 2003	895 AK016	Hatch Transfer

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					PRIVATE	17 Feb 2003	_____	ltf
283	F	11 Aug 1996	MULT	245	NARC	11 Aug 1996	896	Hatch
					KHALIFA	3 Apr 2003	_____	ltf
284	F	14 Aug 1996	205	MULT	NARC	14 Aug 1996	897	Hatch
					KHALIFA	3 Apr 2003	_____	ltf
285	M	3 Sep 1996	205	MULT	NARC	3 Sep 1996	898	Hatch
					SHARJAHBR	17 Feb 2003	AK011	Transfer
					PRIVATE	10 Mar 2005	_____	ltf
286	F	9 Sep 1996	MULT	229	NARC	9 Sep 1996	899	Hatch
					DUISBURG	30 Sep 1999	3960	Transfer
287	F	10 Sep 1996	205	206	NARC	10 Sep 1996	900	Hatch
						13 Nov 1997		Death
					[Death by: Unknown means]			
288	M	21 Sep 1996	MULT	239	NARC	21 Sep 1996	928	Hatch
					RIYADH	12 Jul 1997	970123	Transfer
						28 Jul 1997		Death
					[Death by: Unknown means]			
289	F	22 Sep 1996	MULT	239	NARC	22 Sep 1996	930	Hatch
					SHARJAHBR	17 Feb 2003	AK021	Transfer
					PRIVATE	10 Mar 2005	_____	ltf
290	F	22 Sep 1996	205	MULT	NARC	22 Sep 1996	931	Hatch
					KHALIFA	3 Apr 2003	_____	ltf
291	F	2 Oct 1996	MULT	245	NARC	2 Oct 1996	932	Hatch
						20 Sep 1998		Death
					[Death by: Infection associated † Unknown † Digestive † Nutrition]			
292	M	9 Oct 1996	MULT	229	NARC	9 Oct 1996	933	Hatch
					SHARJAHBR	20 Dec 2000	AK004	Transfer
					PRIVATE	8 Jan 2001	_____	ltf

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293	F	13 Oct 1996	205	MULT	NARC	13 Oct 1996	934	Hatch
						20 Sep 1997		Death
								[Death by: Unknown means]
294	M	~ 1950	WILD	WILD	AFRICAN	~ Jun 1950	NONE	Capture
					HANNOVER	6 Apr 1951	1316	Transfer
					L RUHE	6 Apr 1951		Transfer
					FRANKFURT	6 Sep 1952	17716	Transfer
						29 Nov 1957		Death
								[Death by: Unknown means]
295	F	~ 1951	WILD	WILD	AFRICAN	~ 1953	NONE	Capture
					L RUHE	~ 1953		Transfer
					FRANKFURT	3 Dec 1953	17717	Transfer
						5 May 1960		Death
								[Death by: Unknown means]
296	M	~ 1956	WILD	WILD	AFRICAN	~ Mar 1958	NONE	Capture
					L RUHE	~ Mar 1958		Transfer
					FRANKFURT	10 Jun 1958	17718	Transfer
						27 Sep 1963		Death
								[Death by: Unknown means]
297	M	~ 1959	WILD	WILD	AFRICAN	~ Jan 1960	NONE	Capture
					L RUHE	~ Jan 1960		Transfer
					FRANKFURT	20 Jun 1960	17719	Transfer
						7 Nov 1960		Death
								[Death by: Unknown means]
298	M	~ 1960	WILD	WILD	AFRICAN	~ Jan 1962	NONE	Capture
					L RUHE	~ Jan 1962		Transfer
					FRANKFURT	17 May 1962	17720	Transfer
						1 Jun 1971		Death
								[Death by: Unknown means]
299	F	~ 1960	WILD	WILD	AFRICAN	~ Jan 1962	NONE	Capture
					L RUHE	~ Jan 1962		Transfer
					FRANKFURT	17 May 1962	17721	Transfer
						25 Mar 1968		Death

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[Death by: Unknown means]								
300	?	~ 1964	WILD	WILD	AFRICAN KHOMAS FRANKFURT	~ Jan 1966 ~ Jan 1966 21 May 1966 14 Jun 1966	NONE <u> </u> 17722	Capture Transfer Transfer Death
[Death by: Unknown means]								
301	?	~ 1967	WILD	WILD	AFRICAN V.D.BRINK FRANKFURT	~ Jan 1969 ~ Jan 1969 9 Jul 1969 14 Dec 1973	NONE <u> </u> 17723	Capture Transfer Transfer Death
[Death by: Unknown means]								
302	M	~ 1967	WILD	WILD	AFRICAN V.D.BRINK FRANKFURT	~ Jan 1969 ~ Jan 1969 9 Jul 1969 26 Dec 1978	NONE <u> </u> 22080	Capture Transfer Transfer Death
[Death by: Unknown means]								
303	M	28 Jul 1990	UNK	UNK	NURNBERG BERLINZOO	28 Jul 1990 28 Feb 1991 28 Aug 2001	B00241 910071	Hatch Transfer Death
[Death by: Euthanasia (medical) † Unknown † Unknown (after necropsy)]								
304	F	12 Jul 1990	UNK	UNK	NURNBERG BERLINZOO	12 Jul 1990 28 Feb 1991 ~ Jun 2005	B00240 910072	Hatch Transfer Death
[Death by: Unknown means]								
305	F	~ 1992	WILD	WILD	TANZANIA KLEIN S BERLINZOO	~ Oct 1993 ~ Oct 1993 3 Dec 1993 27 Sep 1994	NONE <u> </u> 930100	Capture Transfer Transfer Death
[Death by: Unknown means]								
306	M	~ 1992	WILD	WILD	TANZANIA KLEIN S BERLINZOO	~ Oct 1993 ~ Oct 1993 3 Dec 1993	NONE <u> </u> 930101	Capture Transfer Transfer

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						4 May 1995		Death
						[Death by: Unknown means]		
307	M	~ 1992	WILD	WILD	TANZANIA	~ Oct 1993	NONE	Capture
					KLEIN S	~ Oct 1993	_____	Transfer
					BERLINZOO	3 Dec 1993	930102	Transfer
						9 Jun 1995		Death
						[Death by: Unknown means]		
308	M	~ 1992	WILD	WILD	TRANSVAAL	~ Sep 1994	NONE	Capture
					JOHANSBRG	15 Oct 1994	976	Transfer
						12 Aug 1998		Death
						[Death by: Environ/Behav conditions † Incinerate † Digestive † Trauma]		
309	M	~ 1985	WILD	WILD	AFRICAN	~ 1986	NONE	Capture
					BODE W	~ 1986	_____	Transfer
					GRONAU	~ 1986	_____	Transfer
					KREFELD	4 Nov 1986	V116	Transfer
						16 Dec 1993		Death
						[Death by: Infection associated † Unknown † Musculoskeletal † Trauma]		
310	F	~ 1985	WILD	WILD	AFRICAN	~ 1986	NONE	Capture
					BODE W	~ 1986	_____	Transfer
					GRONAU	~ 1986	_____	Transfer
					KREFELD	4 Nov 1986	V117	Transfer
						11 Mar 1996		Death
						[Death by: Infection associated † Unknown † Digestive † Bacterial]		
311	M	21 Jul 1993	319	317	NURNBERG	21 Jul 1993	B00308	Hatch
					KREFELD	12 Jan 1994	V1138	Transfer
						5 Jan 1997		Death
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]		
312	M	~ 1934	WILD	WILD	AFRICAN	~ 1935	NONE	Capture
					NURNBERG	1 Jan 1936	B00217	Transfer
						~ Jan 1946		Death
						[Death by: Unknown means]		
313	M	~ 1962	WILD	WILD	AFRICAN	~ 1963	NONE	Capture

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					MOLINAR	~ 1963	_____	Transfer
					NURNBERG	2 Aug 1963	B00215	Transfer
						16 Aug 1963		Death
					[Death by: Infection associated † Unknown † Generalized † Circulatory, secondary]			
314	F	~ 1962	WILD	WILD	AFRICAN	~ 1963	NONE	Capture
					MOLINAR	~ 1963	_____	Transfer
					NURNBERG	2 Aug 1963	B00216	Transfer
						23 Aug 1963		Death
					[Death by: Infection associated † Unknown † Generalized † Nutrition]			
315	M	~ 1976	WILD	WILD	AFRICAN	~ Jan 1977	NONE	Capture
					V.D.BRINK	~ Jan 1977	_____	Transfer
					NURNBERG	30 Jun 1977	B00224	Transfer
						5 Jul 1977		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
316	F	~ 1976	WILD	WILD	AFRICAN	~ Jan 1977	NONE	Capture
					V.D.BRINK	~ Jan 1977	_____	Transfer
					NURNBERG	30 Jun 1977	B00225	Transfer
						5 Jan 1986		Death
					[Death by: Infection associated † Unknown † Hemic/Lymph † Metabolism]			
317	F	~ 1976	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					V.D.BRINK	~ 1977	_____	Transfer
					NURNBERG	21 Jul 1977	B00226	Transfer
						28 Nov 1996		Death
					[Death by: Infection associated † Unknown † Digestive † Metabolism]			
318	F	~ 1976	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					V.D.BRINK	~ 1977	_____	Transfer
					NURNBERG	21 Jul 1977	B00227	Transfer
						28 Jun 1987		Death
					[Death by: Infection associated † Unknown † Reproductive † Toxicity]			
319	M	~ 1980	WILD	WILD	AFRICAN	~ 1981	NONE	Capture
					STRUCK	~ 1981	_____	Transfer
					NURNBERG	9 Nov 1981	B00228	Transfer
						12 Jun 2009		Death

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[Death by: Unknown means]

320 M ~ 1986 WILD WILD AFRICAN ~ Dec 1986 NONE Capture
 HOHENSTAD ~ Dec 1986 _____ Transfer
 NURNBERG 11 Feb 1987 B00229 Transfer
 22 Mar 2008 Death

[Death by: Unknown means]

321 F ~ 1986 WILD WILD AFRICAN ~ Dec 1986 NONE Capture
 HOHENSTAD ~ Dec 1986 _____ Transfer
 NURNBERG 11 Feb 1987 B00230 Transfer
 13 Jun 2008 Death

[Death by: Unknown means]

322 F 20 Jun 1989 UNK UNK NURNBERG 20 Jun 1989 B00232 Hatch
 28 Mar 2010 Death

[Death by: Unknown means]

323 F 21 Jun 1989 UNK UNK NURNBERG 21 Jun 1989 B00233 Hatch
 25 Aug 1989 Death

[Death by: Unknown means]

324 M 4 Jul 1989 UNK UNK NURNBERG 4 Jul 1989 B00234 Hatch
 2 Dec 1989 Death

[Death by: Infection associated † Unknown † Urinary † Metabolism]

325 M 9 Jul 1990 UNK UNK NURNBERG 9 Jul 1990 B00239 Hatch
 18 Jan 1992 Death

[Death by: Euthanasia (medical) † Unknown † Urinary † Circulatory,

secondary]

326 M 1 Jul 1991 UNK UNK NURNBERG 1 Jul 1991 B00242 Hatch
 20 Jul 2000 Death

[Death by: Euthanasia (medical) † Given to an institution: UNK † Unknown (after necropsy)]

327 ? 4 Jul 1991 UNK UNK NURNBERG 4 Jul 1991 B00243 Hatch
 8 Jul 1991 Death

[Death by: Infection associated † Unknown † Generalized † Metabolism]

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328	F	13 Jul 1991	UNK	UNK	NURNBERG	13 Jul 1991	B00244	Hatch
						28 Jan 1996		Death
			[Death by: Unknown means]					
329	F	5 Jun 1992	UNK	UNK	NURNBERG	5 Jun 1992	B00245	Hatch
						6 Apr 1993		Death
			[Death by: Unknown means]					
330	M	17 Jun 1992	UNK	UNK	NURNBERG	17 Jun 1992	B00246	Hatch
						3 Jan 1993		Death
			[Death by: Infection associated † Unknown † Cardiovascular † Circulatory, secondary]					
331	?	19 Jun 1992	UNK	UNK	NURNBERG	19 Jun 1992	B00247	Hatch
						8 Sep 1992		Death
			[Death by: Unknown means]					
332	M	3 Apr 1992	UNK	UNK	NURNBERG	3 Apr 1992	B00248	Hatch
					MUNICH	24 Mar 1993	401001	Transfer
					SCHMIDING	22 Mar 1998	930205	Transfer
						31 May 2002		Death
			[Death by: Unknown means]					
333	M	1 Aug 1992	320	321	NURNBERG	1 Aug 1992	B00249	Hatch
						26 Feb 1993		Death
			[Death by: Infection associated † Unknown † Digestive † Trauma]					
334	?	13 Aug 1992	319	317	NURNBERG	13 Aug 1992	B00250	Hatch
						14 Aug 1992		Death
			[Death by: Infection associated † Unknown † Respiratory † Bacterial]					
335	F	15 Aug 1992	319	317	NURNBERG	15 Aug 1992	B00251	Hatch
					MUNICH	24 Mar 1993	401002	Transfer
						16 Oct 1996		Death
			[Death by: Unknown means]					
336	M	10 Jun 1993	UNK	UNK	NURNBERG	10 Jun 1993	B00306	Hatch
					AUGSBURG	8 Dec 1993	93244	Transfer
					NURNBERG	30 Jun 1997	_____	ltf

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337	?	7 Apr 1993	319	317	NURNBERG	7 Apr 1993	B00307	Hatch
						9 Jul 1993		Death
						[Death by: Infection associated † Unknown † Digestive † Metabolism]		
338	?	3 Aug 1993	319	317	NURNBERG	3 Aug 1993	B00378	Hatch
						23 Aug 1993		Death
						[Death by: Infection associated † Unknown † Musculoskeletal † Rickettsial]		
339	F	24 Aug 1993	319	317	NURNBERG	24 Aug 1993	B00379	Hatch
					AUGSBURG	8 Dec 1993	93245	Transfer
						1 Jan 1994		Death
						[Death by: Unknown means]		
340	?	4 May 1994	319	317	NURNBERG	4 May 1994	B00498	Hatch
						4 Sep 1994		Death
						[Death by: Infection associated † Unknown † Generalized † Trauma]		
341	?	26 May 1994	319	317	NURNBERG	26 May 1994	B00505	Hatch
						28 May 1994		Death
						[Death by: Infection associated † Unknown † Digestive † Metabolism]		
342	?	9 Jun 1994	319	317	NURNBERG	9 Jun 1994	B00516	Hatch
						30 Aug 1994		Death
						[Death by: Infection associated † Unknown † Generalized † Trauma]		
343	?	10 Jun 1994	319	317	NURNBERG	10 Jun 1994	B00517	Hatch
						5 Sep 1994		Death
						[Death by: Infection associated † Unknown † Cardiovascular † Circulatory, secondary]		
344	?	11 Jul 1994	319	317	NURNBERG	11 Jul 1994	B00546	Hatch
						13 Jul 1994		Death
						[Death by: Infection associated † Unknown † Cardiovascular † Circulatory, secondary]		
345	?	27 Jul 1994	319	317	NURNBERG	27 Jul 1994	B00547	Hatch
						9 Aug 1994		Death
						[Death by: Infection associated † Unknown † Musculoskeletal † Rickettsial]		
346	M	15 Aug 1994	319	317	NURNBERG	15 Aug 1994	B00560	Hatch
						29 Mar 1995		Death

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									[Death by: Infection associated † Unknown † Generalized † Trauma]
347	F	30 Aug 1994	319	317	NURNBERG	30 Aug 1994	B00568	Hatch	
						17 Nov 1994		Death	
									[Death by: Infection associated † Unknown † Generalized † Trauma]
348	M	9 Aug 1995	319	317	NURNBERG	9 Aug 1995	B00764	Hatch	
					AUGSBURG	22 Nov 1995	950037	Transfer	
					NURNBERG	5 May 1997	A769	Transfer	
					MAGDEBURG	24 May 1997	700003	Transfer	
						11 Jul 1997		Death	
									[Death by: Other/Unknown † Incinerate † Necropsy planned later † Genetic/Prenatal]
349	M	~ 1966	WILD	WILD	AFRICAN	~ Jan 1967	NONE	Capture	
					DEALER	~ Jan 1967	_____	Transfer	
					BIRMINGHM	2 Jun 1967	_____	Transfer	
						7 Aug 1973		Death	
									[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]
350	F	~ Dec 1985	WILD	WILD	AFRICAN	~ 1987	NONE	Capture	
					AREEN	~ 1987	_____	Transfer	
					RIYADH	14 Feb 1987	870590	Transfer	
						12 Nov 1987		Death	
									[Death by: Infection associated † Unknown † Generalized † Trauma]
351	F	~ Mar 1989	WILD	WILD	AFRICAN	~ 1990	NONE	Capture	
					WESMI	~ 1990	_____	Transfer	
					RIYADH	7 Mar 1990	901565	Transfer	
						3 May 1993		Death	
									[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]
352	F	~ Mar 1989	WILD	WILD	AFRICAN	~ 1990	NONE	Capture	
					WESMI	~ 1990	_____	Transfer	
					RIYADH	7 Mar 1990	901566	Transfer	
						9 Apr 1993		Death	
									[Death by: Infection associated † Unknown † Generalized † Trauma]
353	M	~ 1992	WILD	WILD	AFRICAN	~ 1993	NONE	Capture	
					WESMI	~ 1993	_____	Transfer	

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					RIYADH	11 Sep 1993	933486	Transfer
						15 May 1994		Death
					[Death by: Unknown means]			
354	F	~ 1991	WILD	WILD	AFRICAN	~ 1993	NONE	Capture
					WESMI	~ 1993	_____	Transfer
					RIYADH	11 Sep 1993	933487	Transfer
						15 Dec 1995		Death
					[Death by: Unknown means]			
355	F	1 Jan 1996	WILD	WILD	MARULA	2 Jan 1996	NONE	Capture
					PINEFARM	22 Jan 1996	_____	ltf
356	F	3 Oct 1997	94	119	NZP-WASH	3 Oct 1997	213964	Hatch
					METROZOO	5 May 2005	B50183	Transfer
357	M	10 Mar 1997	241	234	NARC	10 Mar 1997	1177	Hatch
						9 May 1997		Death
					[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]			
358	F	~ 1989	WILD	WILD	TANZANIA	~ 1992	NONE	Capture
					AIRTANZAN	~ 1992	_____	Transfer
					ROMA	14 Feb 1992	1431	Transfer
359	F	~ 1989	WILD	WILD	TANZANIA	~ 1992	NONE	Capture
					AIRTANZAN	~ 1992	_____	Transfer
					ROMA	14 Feb 1992	1430	Transfer
						10 Jul 2001		Death
					[Death by: Unknown means]			
360	M	~ 1989	WILD	WILD	TANZANIA	~ 1992	NONE	Capture
					AIRTANZAN	~ 1992	_____	Transfer
					ROMA	14 Feb 1992	1428	Transfer
						20 Sep 1992		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
361	M	~ 1989	WILD	WILD	TANZANIA	~ 1992	NONE	Capture
					AIRTANZAN	~ 1992	_____	Transfer
					ROMA	14 Feb 1992	1429	Transfer

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						6 Feb 1993		Death
						[Death by: Environ/Behav conditions † Unknown † Generalized † Trauma]		
362	F	23 Sep 1985	UNK	UNK	UNKNOWN	23 Sep 1985	_____	Hatch
					GRUNWALD	~ Jan 1986	_____	Transfer
					ROMA	24 Sep 1986	508	Transfer
						10 Apr 2001		Death
						[Death by: Unknown means]		
363	F	~ 1990	WILD	WILD	AFRICAN	~ 1992	NONE	Capture
					GARDA	~ 1992	_____	Transfer
					ROMA	22 Sep 1992	1645	Transfer
						14 Dec 1993		Death
						[Death by: Environ/Behav conditions † Unknown † Generalized † Trauma]		
364	?	24 Jun 1997	66	78	PHOENIX	24 Jun 1997	8288	Hatch
						29 Jun 1997		Death
						[Death by: Euthanasia (medical) † Unknown † Nervous † Genetic/Prenatal]		
365	M	23 Jun 1997	66	80	PHOENIX	23 Jun 1997	8287	Hatch
						2 Feb 1998		Death
						[Death by: Infection associated † Unknown † Generalized † Mechanical abnormality]		
366	M	3 May 1997	66	80	PHOENIX	3 May 1997	8218	Hatch
						19 Dec 2002		Death
						[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]		
367	M	22 Jun 1997	66	78	PHOENIX	22 Jun 1997	8283	Hatch
					CLEVELAND	18 Mar 1998	980314	Transfer
					SD-WAP	19 Jun 2007	807154	Transfer
						14 Apr 2011		Death
						[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]		
368	M	7 Jun 1997	66	78	PHOENIX	7 Jun 1997	8262	Hatch
					CLEVELAND	18 Mar 1998	970697	Transfer
						13 Jun 1998		Death
						[Death by: Environ/Behav conditions † Unknown † Digestive † Trauma]		
369	M	19 May 1997	66	78	PHOENIX	19 May 1997	8240	Hatch

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						23 Oct 2000		Death
								[Death by: Unknown means]
370	M	4 May 1997	66	78	PHOENIX	4 May 1997	8219	Hatch
					DALLAS	17 Jun 1998	98C313	Transfer
						20 May 2009		Death
								[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]
371	F	10 Jul 1997	66	78	PHOENIX	10 Jul 1997	8306	Hatch
					CLEVELAND	10 Jul 1997	970735	Transfer
					FRANKLINP	22 Apr 2004	A04412	Transfer
					PHOENIX	~16 Nov 2009	8306	Transfer
						25 Sep 2010		Death
								[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]
372	M	20 Oct 1996	MULT	234	NARC	20 Oct 1996	935	Hatch
					SHARJAHBR	17 Feb 2003	AK012	Transfer
					PRIVATE	17 Feb 2003	_____	ltf
373	F	20 Oct 1996	MULT	239	NARC	20 Oct 1996	936	Hatch
					KHALIFA	3 Apr 2003	_____	ltf
374	M	27 Oct 1996	MULT	224	NARC	27 Oct 1996	937	Hatch
						15 Jan 1997		Death
								[Death by: Infection associated † Unknown † Generalized † Nutrition]
375	M	8 Nov 1996	MULT	245	NARC	8 Nov 1996	938	Hatch
						7 Oct 1997		Death
								[Death by: Unknown means]
376	?	16 Nov 1996	MULT	239	NARC	16 Nov 1996	939	Hatch
						22 Nov 1996		Death
								[Death by: Infection associated † Unknown † Generalized † Trauma]
377	?	11 Apr 1997	205	MULT	NARC	11 Apr 1997	976	Hatch
						13 Apr 1997		Death
								[Death by: Infection associated † Unknown † Generalized † Bacterial]
378	F	~ 1986	WILD	WILD	AFRICAN	~ 1986	NONE	Capture

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					RUSHDEN	7 Jul 1986	4333	Transfer
					VIENNA	21 Nov 1986	_____	Transfer
						4 Jul 1991		Death
					[Death by: Unknown means]			
379	F	~ 1976	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					V.D.BRINK	~ 1977	_____	Transfer
					VIENNA	~ 1977	_____	Transfer
						20 Feb 1979		Death
					[Death by: Unknown means]			
380	M	~ 1974	WILD	WILD	AFRICAN	~ 1975	NONE	Capture
					V.D.BRINK	~ 1975	_____	Transfer
					VIENNA	~ 1975	_____	Transfer
						17 Jul 1977		Death
					[Death by: Unknown means]			
381	M	~ 1975	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					RUSHDEN	~ 1977	_____	Transfer
					VIENNA	23 Oct 1977	B688	Transfer
					SCHMIDING	11 Mar 1992	_____	ltf
382	F	~ 1983	WILD	WILD	TANZANIA	~ 1985	NONE	Capture
					MAN AE	~ 1985	_____	Transfer
					PLANCKNDL	10 Oct 1985	087003	Transfer
					ALPHEN	19 Jan 1994	3281	Transfer
						6 Dec 1994		Death
					[Death by: Unknown means]			
383	F	~ 1992	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
					SCHMIDING	~ 1993	_____	Transfer
					BERLIN TP	12 Oct 1994	B00190	Transfer
						18 Jun 2003		Death
					[Death by: Other/Unknown † Given to an institution: UNKNOWN † Unknown (after necropsy)]			
384	M	20 Sep 1997	66	80	PHOENIX	20 Sep 1997	8365	Hatch
					AUDUBON	17 Jun 1998	2317	Transfer
						12 Jan 2010		Death
					[Death by: Environ/Behav conditions † Unknown † Musculoskeletal † Trauma]			

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385	F	7 Oct 1997	66	80	PHOENIX	7 Oct 1997	8372	Hatch
						19 May 1998		Death
								[Death by: Unknown means]
386	M	22 Oct 1997	66	78	PHOENIX	22 Oct 1997	8388	Hatch
						24 Nov 1998		Death
								[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
387	?	17 Jun 1998	66	80	PHOENIX	17 Jun 1998	8600	Hatch
					CLEVELAND	21 May 1999	980640	Transfer
						30 Mar 2000		Death
								[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Unknown after necropsy]
388	F	9 Jul 1998	66	78	PHOENIX	9 Jul 1998	8660	Hatch
						28 Dec 1998		Death
								[Death by: Other/Unknown † Unknown † Cardiovascular † Circulatory,
								secondary]
389	F	~ 1996	WILD	WILD	TANZANIA	~ Nov 1997	NONE	Capture
					MILLER R	~ 8 Jun 1998	_____	Transfer
					NZP-WASH	11 Jul 1998	214097	Transfer
390	M	~ 1996	WILD	WILD	TANZANIA	~ Nov 1997	NONE	Capture
					MILLER R	8 Jun 1998	_____	Transfer
					NZP-WASH	14 Jul 1998	214098	Transfer
						28 Jan 2003		Death
								[Death by: Infection associated † Incinerate † Generalized † Bacterial]
391	F	~ 1996	WILD	WILD	TANZANIA	~ Nov 1997	NONE	Capture
					MILLER R	8 Jun 1998	_____	Transfer
					DISNEY AK	11 Jul 1998	981438	Transfer
						4 Jan 2005		Death
								[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]
392	F	~ 1996	WILD	WILD	TANZANIA	~ Nov 1997	NONE	Capture
					MILLER R	8 Jun 1998	_____	Transfer
					DISNEY AK	11 Jul 1998	981437	Transfer
						5 Dec 1998		Death

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[Death by: Self-inflicted injuries † Incinerate † Musculoskeletal † Trauma]

393 M ~ 1996 WILD WILD TANZANIA ~ Nov 1997 NONE Capture
MILLER R 8 Jun 1998 _____ Transfer
DISNEY AK 11 Jul 1998 981436 Transfer
5 Jul 2001 Death

[Death by: Unknown means]

394 M ~ 1996 WILD WILD TANZANIA ~ Nov 1997 NONE Capture
MILLER R 8 Jun 1998 _____ Transfer
DISNEY AK 11 Jul 1998 981435 Transfer
METROZOO 15 Apr 2005 B50134 Transfer

395 F ~ 1995 WILD WILD TANZANIA ~ Nov 1997 NONE Capture
MILLER R 8 Jun 1998 _____ Transfer
SD-WAP 11 Jul 1998 898317 Transfer

397 F 20 Jun 1998 69 57 DALLAS 20 Jun 1998 98C333 Hatch
FORTWORTH 29 Nov 1999 991112 Transfer
29 Aug 2006 Death

[Death by: Injury from predator † Unknown † Generalized † Trauma]

398 M ~ 1996 WILD WILD TANZANIA ~ Nov 1997 NONE Capture
MILLER R 8 Jun 1998 _____ Transfer
~ 1 Jul 1998 Death

[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]

399 M 11 Aug 1998 94 119 NZP-WASH 11 Aug 1998 214127 Hatch
22 Apr 2002 Death

[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]

400 F 22 Aug 1998 94 119 NZP-WASH 22 Aug 1998 214132 Hatch
AUDUBON 28 Apr 1999 2551 Transfer

401 F 7 Sep 1998 94 119 NZP-WASH 7 Sep 1998 214136 Hatch
9 Sep 1998 Death

[Death by: Infection associated † Incinerate † Reproductive † Bacterial]

402 F ~ 1980 WILD WILD BOTSWANA ~ 1981 NONE Capture

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					WALSRODE	~ 1981	BOR002	Transfer
					KREFELD	17 Sep 1997	V1653	Transfer
						2 Feb 2012		Death
					[Death by: Infection associated † Given to an institution: † Hemic/Lymph † Bacterial † Necropsy not received]			
403	M	~ 1994	WILD	WILD	TANZANIA	~ 1996	NONE	Capture
					MALLORCA	~ 1996	_____	Transfer
					WALSRODE	22 Feb 1997	BOR003	Transfer
						13 Oct 2012		Death
					[Death by: Unknown means]			
404	F	~ 1994	WILD	WILD	TANZANIA	~ 1996	NONE	Capture
					MALLORCA	~ 1996	_____	Transfer
					WALSRODE	22 Feb 1997	BOR004	Transfer
						22 Apr 2012		Death
					[Death by: Unknown means]			
405	F	~ 1996	WILD	WILD	AFRICAN	~ Jun 1998	NONE	Capture
					PUBLIC	~ Jun 1998	_____	Transfer
					MAGDEBURG	20 Sep 1998	274004	Transfer
					HANNOVER	18 Aug 2002	I254	Transfer
					MAGDEBURG	4 Sep 2002	700004	Transfer
					KREFELD	28 Mar 2004	V2544	Transfer
						4 Jan 2010		Death
					[Death by: Injury from exhibit mate † Given to an institution: VETINSTKR † Musculoskeletal † Trauma]			
406	F	20 Jun 1998	UNK	321	NURNBERG	20 Jun 1998	B01384	Hatch
					BERLIN TP	1 May 2003	B00296	Transfer
						22 Apr 2009		Death
					[Death by: Euthanasia (medical) † Given to an institution: BERLINWIL † Musculoskeletal † Trauma]			
407	F	~ 1983	WILD	WILD	AFRICAN	~ 1986	NONE	Capture
					MAN AE	~ 1986	_____	Transfer
					AMERSFOOR	19 Aug 1986	B611	Transfer
						9 Feb 1999		Death
					[Death by: Unknown means]			

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408	M	~ 1983	WILD	WILD	AFRICAN MAN AE	~ 1986 ~ 1986	NONE	Capture Transfer
				AMERSFOOR	19 Aug 1986		B607	Transfer
				DUISBURG	9 Nov 2001		4336	Transfer
					20 Dec 2005			Death
			[Death by: Infection associated † Incinerate † Generalized † Unknown after necropsy]					
409	M	~ 1977	WILD	WILD	AFRICAN WALSRODE	~ 1979 ~ 1979 ~ 1996	NONE BOR001	Capture Transfer Death
			[Death by: Unknown means]					
410	M	26 Jul 1998	66	80	PHOENIX	26 Jul 1998 27 Dec 1999	8671	Hatch Death
			[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]					
411	?	26 Jul 1998	66	78	PHOENIX	26 Jul 1998 26 Jul 1998	8672	Hatch Death
			[Death by: Unknown means]					
412	M	14 Aug 1998	66	78	PHOENIX	14 Aug 1998 5 Feb 2002	8685	Hatch Death
			[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]					
413	?	6 Sep 1998	66	78	PHOENIX	6 Sep 1998 7 Sep 1998	8710	Hatch Death
			[Death by: Unknown means]					
414	M	8 Sep 1998	66	78	PHOENIX	8 Sep 1998 30 Nov 1998	8712	Hatch Death
			[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]					
415	F	24 Sep 1998	66	80	PHOENIX JACKSONVL	24 Sep 1998 ~ 8 May 2001 4 Jun 2003	8773 601338	Hatch Transfer Death
			[Death by: Anesth/Restraint assoc † Unknown † Musculoskeletal † Trauma]					
416	M	21 Oct 1998	66	80	PHOENIX	21 Oct 1998	8800	Hatch

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						17 Nov 1998		Death
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Nutrition]		
417	?	23 Sep 1998	218	239	NARC	23 Sep 1998	1223	Hatch
						5 Apr 1999		Death
						[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]		
418	?	24 Sep 1998	241	234	NARC	24 Sep 1998	1224	Hatch
						24 Jul 1999		Death
						[Death by: Unknown means]		
419	M	~ 1990	WILD	WILD	S.AFRICA	~ Jan 1998	NONE	Capture
					MOHOLOHOL	~ Jan 1998	_____	Transfer
					JOHANSBRG	29 Jan 1998	3573	Transfer
						24 Aug 1998		Death
						[Death by: Infection associated † Incinerate † Digestive † Toxicity]		
420	F	~ 1997	WILD	WILD	S.AFRICA	~ Aug 1998	NONE	Capture
					ALBUTT C	~ Aug 1998	_____	Transfer
					JOHANSBRG	21 Aug 1998	3596	Transfer
421	?	~ 1991	WILD	WILD	TANZANIA	~ Jan 1993	NONE	Capture
					BULAWAYO	~ Jan 1993	_____	Transfer
					PLANCKNDL	30 Mar 1993	087004	Transfer
					BULAWAYO	30 Mar 1995	_____	ltf
422	?	~ 1991	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
					BULAWAYO	~ Jan 1993	_____	Transfer
					PLANCKNDL	30 Mar 1993	087005	Transfer
					BULAWAYO	4 Aug 1995	_____	ltf
423	?	~ 1991	WILD	WILD	TANZANIA	~ Jan 1993	NONE	Capture
					BULAWAYO	~ Jan 1993	_____	Transfer
					PLANCKNDL	30 Mar 1995	087006	Transfer
					BULAWAYO	4 Aug 1995	_____	ltf
424	?	~ 1991	WILD	WILD	TANZANIA	~ Jan 1993	NONE	Capture
					BULAWAYO	~ Jan 1993	_____	Transfer
					PLANCKNDL	30 Mar 1995	087007	Transfer

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					BULAWAYO	4 Aug 1995	_____	ltf
425	M	~ 1998	WILD	WILD	AFRICAN	~ Jan 1999	NONE	Capture
					SUZUKI N	~ Jan 1999	_____	Transfer
					HIGASHI M	13 Jan 1999	990009	ltf
426	M	~ 1998	WILD	WILD	AFRICAN	~ Jan 1999	NONE	Capture
					SUZUKI N	~ Jan 1999	_____	Transfer
					HIGASHI M	13 Jan 1999	990007	ltf
427	M	~ 1998	WILD	WILD	AFRICAN	~ Jan 1999	NONE	Capture
					SUZUKI N	~ Jan 1999	_____	Transfer
					HIGASHI M	13 Jan 1999	990008	ltf
428	M	18 Apr 1999	69	57	DALLAS	18 Apr 1999	99C672	Hatch
					WACO	26 Jun 2000	B02800	Transfer
					DALLAS	~25 Apr 2012	UNK	Transfer
						6 Jun 2012		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma † Necropsy not received]			
429	F	30 Apr 1999	69	131	DALLAS	30 Apr 1999	99C714	Hatch
					STCATHERN	27 Mar 2001	S01027	Transfer
					TOLEDO	4 Aug 2005	4218	Transfer
430	F	1 May 1999	69	131	DALLAS	1 May 1999	99C715	Hatch
					JACKSONVL	22 May 2001	601341	Transfer
431	M	~ 1993	WILD	WILD	TANZANIA	~ Jan 1995	NONE	Capture
					DUBAI	21 Feb 1995	_____	ltf
432	F	~ 1993	WILD	WILD	TANZANIA	~ Jan 1995	NONE	Capture
					DUBAI	21 Feb 1995	_____	ltf
433	M	16 Jul 1999	94	119	NZP-WASH	16 Jul 1999	214392	Hatch
					BALTIMORE	4 May 2000	436	Transfer
						19 May 2006		Death
					[Death by: Infection associated † Unknown † Respiratory † Fungal]			
434	M	15 Aug 1999	94	119	NZP-WASH	15 Aug 1999	214399	Hatch

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					JACKSONVL	21 Sep 2000	600354	Transfer
						18 May 2005		Death
					[Death by: Infection associated † Unknown † Respiratory † Fungal]			
435	M	28 Aug 1999	94	119	NZP-WASH	28 Aug 1999	214401	Hatch
					BALTIMORE	4 May 2000	437	Transfer
					TOLEDO	17 Nov 2004	3860	Transfer
						14 Feb 2013		Death
					[Death by: Euthanasia (medical) † Unknown † Cardiovascular † Circulatory, secondary † Necropsy not received]			
436	M	12 Sep 1999	94	119	NZP-WASH	12 Sep 1999	214402	Hatch
					JACKSONVL	21 Sep 2000	600355	Transfer
						17 May 2002		Death
					[Death by: Infection associated † Bury † Digestive † Nutrition]			
437	M	28 Sep 1999	94	119	NZP-WASH	28 Sep 1999	214404	Hatch
					AUDUBON	17 Oct 2000	100004	Transfer
					KANSASCTY	30 Sep 2003	A03051	Transfer
438	F	30 Sep 1999	94	119	NZP-WASH	30 Sep 1999	214406	Hatch
					STCATHERN	6 Jun 2000	S00045	Transfer
					AUDUBON	3 Apr 2003	100903	Transfer
						11 Feb 2008		Death
					[Death by: Infection associated † Unknown † Urinary † Toxicity]			
439	M	~ Jan 1996	WILD	WILD	TANZANIA	~ Jan 1999	NONE	Capture
					MILLER R	~ Jan 1999	_____	Transfer
					FORTWORTH	6 May 1999	990501	Transfer
440	M	~ Jan 1998	WILD	WILD	TANZANIA	~ Jan 1999	NONE	Capture
					MILLER R	~ Jan 1999	_____	Transfer
					FORTWORTH	6 May 1999	990502	Transfer
						30 May 1999		Death
					[Death by: Unknown means]			
441	?	14 Jul 1999	66	78	PHOENIX	14 Jul 1999	8966	Hatch
						1 Aug 1999		Death
					[Death by: Euthanasia (medical) † Unknown † Unknown (after necropsy)]			

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442	M	1 Aug 1999	66	78	PHOENIX FRANKLINP	1 Aug 1999 22 Apr 2004 23 May 2004	9031 A04411	Hatch Transfer Death	[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
443	?	4 Aug 1999	66	78	PHOENIX	4 Aug 1999 8 Aug 1999	9035	Hatch Death	[Death by: Other/Unknown † Bury † Unknown (after necropsy)]
444	?	20 Aug 1999	66	78	PHOENIX	20 Aug 1999 22 Aug 1999	9046	Hatch Death	[Death by: Unknown means]
445	?	21 Aug 1999	66	78	PHOENIX	21 Aug 1999 13 Oct 1999	9047	Hatch Death	[Death by: Euthanasia (medical) † Unknown † Unknown (after necropsy)]
446	?	3 Sep 1999	66	80	PHOENIX	3 Sep 1999 4 Sep 1999	9052	Hatch Death	[Death by: Unknown means]
447	M	15 Oct 1999	94	119	NZP-WASH SAFARI W	15 Oct 1999 ~ Oct 2000 25 Jan 2001	214410 200024	Hatch Transfer Death	[Death by: Injury from predator † Unknown † No necropsy planned]
448	F	30 Oct 1999	94	119	NZP-WASH WACO	30 Oct 1999 6 Jun 2000	214433 B02700	Hatch Transfer	
449	M	21 Feb 1999	275	251	NARC SHARJAHBR PRIVATE	21 Feb 1999 20 Dec 2000 21 Mar 2001	1330 AK006	Hatch Transfer ltf	
450	?	1 Mar 1999	264	245	NARC	1 Mar 1999 5 Mar 1999	1331	Hatch Death	[Death by: Infection associated † Unknown † Generalized † Trauma]
451	M	16 Jul 1999	275	251	NARC	16 Jul 1999	1380	Hatch	

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						15 May 2001		Death		
						[Death by: Anesth/Restraint	assoc †	Unknown †	No necropsy planned]	
452	F	12 Aug 1999	275	251	NARC DUBAI	12 Aug 1999 20 Dec 2000	1408	Hatch ltf		
453	M	13 Aug 1999	275	245	NARC KHALIFA	13 Aug 1999 3 Apr 2003	1409	Hatch ltf		
454	M	13 Aug 1999	275	210	NARC ADHERITAG	13 Aug 1999 7 Apr 2001	1410	Hatch ltf		
455	M	27 Aug 1999	241	229	NARC	27 Aug 1999	1444	Hatch		
456	F	30 Aug 1999	275	251	NARC	30 Aug 1999 19 Jan 2000	1452	Hatch Death		
						[Death by: Self-inflicted	injuries †	Unknown †	Generalized †	Trauma]
457	M	20 Sep 1999	241	234	NARC KHALIFA	20 Sep 1999 3 Apr 2003	1453	Hatch ltf		
458	F	22 Sep 1999	MULT	245	NARC ADHERITAG	22 Sep 1999 7 Apr 2001	1454	Hatch ltf		
459	F	23 Sep 1999	MULT	210	NARC DUBAI	23 Sep 1999 15 Nov 2000	1455	Hatch ltf		
460	F	3 Oct 1999	MULT	244	NARC ADHERITAG	3 Oct 1999 7 Apr 2001	1456	Hatch ltf		
461	F	7 Oct 1999	MULT	244	NARC	7 Oct 1999 7 Apr 2001	1457	Hatch Death		
						[Death by: Anesth/Restraint	assoc †	Unknown †	No necropsy planned]	
462	F	9 Oct 1999	MULT	210	NARC ADHERITAG	9 Oct 1999 7 Apr 2001	1458	Hatch ltf		
463	F	9 Oct 1999	MULT	245	NARC MAKTOUM	9 Oct 1999 2 Jul 2002	1459	Hatch Transfer		

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						1 Jul 2010		Death
					[Death by: Unknown means]			
464	F	10 Oct 1999	241	229	NARC	10 Oct 1999	1460	Hatch
					MAKTOUM	2 Jul 2002	A00203	Transfer
						28 Aug 2010		Death
					[Death by: Infection associated † Bury † Unknown (after necropsy)]			
465	F	17 Oct 1999	MULT	244	NARC	17 Oct 1999	1461	Hatch
					MAKTOUM	2 Jul 2002	A00204	Transfer
						1 Jul 2010		Death
					[Death by: Unknown means]			
466	F	17 Oct 1999	MULT	224	NARC	17 Oct 1999	1462	Hatch
					SHARJAHBR	20 Dec 2000	AK007	Transfer
					PRIVATE	21 Dec 2000	_____	ltf
467	F	17 Oct 1999	MULT	251	NARC	17 Oct 1999	1463	Hatch
					SHARJAHBR	20 Dec 2000	AK002	Transfer
					PRIVATE	20 Dec 2000	_____	ltf
468	M	18 Oct 1999	MULT	244	NARC	18 Oct 1999	1464	Hatch
					SHARJAHBR	20 Dec 2000	AK008	Transfer
						21 Jun 2004		Death
					[Death by: Other/Unknown † Mounted or Preserved: UNK † Unknown (after necropsy)]			
469	M	22 Oct 1999	MULT	245	NARC	22 Oct 1999	1465	Hatch
					DUBAI	15 Nov 2000	_____	ltf
470	M	22 Oct 1999	264	272	NARC	22 Oct 1999	1466	Hatch
					SHARJAH	20 Dec 2000	_____	Transfer
					PRIVATE	20 Dec 2000	_____	Transfer
					SHARJAHBR	8 Jan 2001	AK009	Transfer
						8 Jan 2001		Death
					[Death by: Euthanasia (medical) † Incinerate † Hemic/Lymph † Trauma]			
471	F	24 Oct 1999	MULT	245	NARC	24 Oct 1999	1467	Hatch
					KHALIFA	3 Apr 2003	_____	ltf

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472	F	24 Oct 1999	MULT	223	NARC KHALIFA	24 Oct 1999 3 Apr 2003	1468	Hatch ltf
473	M	31 Oct 1999	MULT	251	NARC KHALIFA	31 Oct 1999 3 Apr 2003	1471	Hatch ltf
474	M	24 Jun 2000	143	119	NZP-WASH STCATHERN TUCSON	24 Jun 2000 19 May 2001 6 May 2005	214627 S00080 X55097	Hatch Transfer Transfer
475	F	7 Jul 2000	MULT	119	NZP-WASH	7 Jul 2000 10 Jul 2000	214633	Hatch Death
								[Death by: Unknown means]
476	F	24 Jul 2000	MULT	119	NZP-WASH	24 Jul 2000 24 Jul 2000	214646	Hatch Death
								[Death by: Other/Unknown † Unknown † Unknown (after necropsy) † Genetic/Prenatal]
477	F	8 Aug 2000	390	119	NZP-WASH STCATHERN KANSASCTY	8 Aug 2000 19 May 2001 4 Aug 2005 11 Jun 2008	214648 S01048 A05038	Hatch Transfer Transfer Death
								[Death by: Unknown means]
478	?	22 Aug 2000	MULT	119	NZP-WASH	22 Aug 2000 24 Aug 2000	214651	Hatch Death
								[Death by: Euthanasia (medical) † Unknown † Generalized † Bacterial]
479	F	8 Sep 2000	MULT	119	NZP-WASH	8 Sep 2000 8 Jan 2001	214654	Hatch Death
								[Death by: Infection associated † Incinerate † Generalized † Metazoan]
480	M	22 Sep 2000	143	119	NZP-WASH COLO SPRG	22 Sep 2000 23 Apr 2002 17 Nov 2010	214663 22A004	Hatch Transfer Death
								[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]
481	?	25 Sep 2000	143	119	NZP-WASH	25 Sep 2000	214664	Hatch

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						25 Sep 2000		Death
						[Death by: Environ/Behav conditions † Unknown † No necropsy planned]		
482	M	5 Sep 2000	67	80	PHOENIX	5 Sep 2000	9242	Hatch
						30 Jan 2001		Death
						[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]		
483	F	~ 1974	WILD	WILD	AFRICAN	~ 1977	NONE	Capture
					FERNDALE	~ 1977	_____	Transfer
					CLEVELAND	23 Mar 1977	770310	Transfer
						10 May 1990		Death
						[Death by: Injury from exhibit mate † Incinerate † Respiratory † Trauma]		
484	F	~ 1981	WILD	WILD	AFRICAN	~ 1987	NONE	Capture
					NORTHLAND	~ 1987	_____	Transfer
					CLEVELAND	3 Jul 1987	870730	Transfer
						9 May 1991		Death
						[Death by: Injury from exhibit mate † Incinerate † Generalized † Trauma]		
485	F	2 Mar 2000	UNK	224	NARC	2 Mar 2000	1790	Hatch
					MAKTOUM	2 Jul 2002	A00211	Transfer
486	M	20 Feb 2000	264	272	NARC	20 Feb 2000	1791	Hatch
					MAKTOUM	2 Jul 2002	A00207	Transfer
						1 Jul 2010		Death
						[Death by: Unknown means]		
487	F	22 Feb 2000	UNK	244	NARC	22 Feb 2000	1793	Hatch
					KHALIFA	3 Apr 2003	_____	ltf
488	?	21 Feb 2000	UNK	224	NARC	21 Feb 2000	1792	Hatch
					DUBAI	15 Nov 2000	_____	ltf
489	?	11 Mar 2000	UNK	245	NARC	11 Mar 2000	1804	Hatch
						23 Mar 2000		Death
						[Death by: Infection associated † Unknown † Generalized † Unknown after necropsy]		
490	F	13 Mar 2000	MULT	UNK	NARC	13 Mar 2000	1805	Hatch
					MAKTOUM	2 Jul 2002	A00210	Transfer

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						1 Jul 2010		Death
					[Death by: Unknown means]			
491	F	21 Mar 2000	UNK	224	NARC	21 Mar 2000	1808	Hatch
					SHARJAHBR	17 Feb 2003	AK019	Transfer
					PRIVATE	17 Feb 2003	_____	ltf
492	M	25 Apr 2000	UNK	251	NARC	25 Apr 2000	1816	Hatch
					MAKTOUM	2 Jul 2002	A00208	Transfer
						1 Jul 2010		Death
					[Death by: Unknown means]			
493	F	10 May 2000	UNK	273	NARC	10 May 2000	1831	Hatch
					SHARJAHBR	17 Feb 2003	AK013	Transfer
					SHARJAH	23 Jan 2004		Death
					[Death by: Euthanasia (medical) † Mounted or	Preserved: UNK †	Respiratory †	Unknown after necropsy]
494	M	23 May 2000	292	251	NARC	23 May 2000	1842	Hatch
						18 Mar 2002		Death
					[Death by: Euthanasia (medical) †	Unknown †	Respiratory †	Fungal]
495	M	24 May 2000	372	272	NARC	24 May 2000	1843	Hatch
					KHALIFA	3 Apr 2003	_____	ltf
496	F	25 May 2000	292	227	NARC	25 May 2000	1844	Hatch ltf
497	F	25 May 2000	292	251	NARC	25 May 2000	1845	Hatch
					SHARJAHBR	17 Feb 2003	AK017	Transfer
					PRIVATE	17 Feb 2003	_____	ltf
498	F	26 May 2000	292	213	NARC	26 May 2000	1851	Hatch
					MAKTOUM	2 Jul 2002	A00205	Transfer
						1 Jul 2010		Death
					[Death by: Unknown means]			
499	F	28 May 2000	292	213	NARC	28 May 2000	1853	Hatch
					SHARJAHBR	17 Feb 2003	AK018	Transfer
					PRIVATE	17 Feb 2003	_____	ltf

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500	?	1 Jun 2000	UNK	290	NARC	1 Jun 2000 27 Jun 2000	1857	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Unknown (after necropsy)]								
501	F	31 May 2000	292	244	NARC KHALIFA	31 May 2000 3 Apr 2003	1856	Hatch ltf
502	?	5 Jun 2000	292	224	NARC	5 Jun 2000 27 Jun 2000	1860	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Unknown (after necropsy)]								
503	F	7 Jun 2000	292	251	NARC KHALIFA	7 Jun 2000 3 Apr 2003	1864	Hatch ltf
504	M	9 Jun 2000	292	251	NARC MAKTOUM	9 Jun 2000 2 Jul 2002	1867	Hatch ltf
505	?	9 Jun 2000	292	223	NARC	9 Jun 2000 18 Jun 2000	1868	Hatch Death
[Death by: Unknown means]								
506	F	11 Jun 2000	UNK	272	NARC	11 Jun 2000 27 Mar 2001	1869	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]								
507	F	14 Jun 2000	UNK	284	NARC SHARJAHBR PRIVATE	14 Jun 2000 17 Feb 2003 17 Feb 2003	1878 AK020	Hatch Transfer ltf
508	F	14 Jun 2000	292	213	NARC KHALIFA	14 Jun 2000 3 Apr 2003	1876	Hatch ltf
509	F	16 Jun 2000	292	244	NARC AL AIN PRIVATE	16 Jun 2000 15 Jun 2003 10 Nov 2004	1881	Hatch Transfer ltf
510	M	22 Jun 2000	292	224	NARC ADHERITAG	22 Jun 2000 7 Apr 2001	1886	Hatch ltf

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511	M	24 Jun 2000	292	245	NARC AL AIN	24 Jun 2000 15 Jun 2003 8 Jul 2004	1887	Hatch Transfer Death
[Death by: Unknown means]								
512	M	27 Jun 2000	285	290	NARC AL AIN PRIVATE	27 Jun 2000 15 Jun 2003 18 Feb 2005	1889	Hatch Transfer ltf
513	M	30 Jun 2000	292	244	NARC KHALIFA	30 Jun 2000 3 Apr 2003	1890	Hatch ltf
514	M	1 Jul 2000	292	223	NARC ADHERITAG	1 Jul 2000 7 Apr 2001	1891	Hatch ltf
515	F	1 Jul 2000	292	213	NARC	1 Jul 2000 15 Jun 2003	1892	Hatch Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
516	F	4 Jul 2000	292	227	NARC	4 Jul 2000 3 Dec 2000	1894	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]								
517	M	20 Aug 2000	292	290	NARC	20 Aug 2000 26 Feb 2003	1903	Hatch Death
[Death by: Euthanasia (medical) † Unknown † Generalized † Metabolism]								
518	M	23 Aug 2000	264	251	NARC AL AIN PRIVATE	23 Aug 2000 15 Jun 2003 18 Feb 2005	1904	Hatch Transfer ltf
519	?	30 Aug 2000	292	206	NARC	30 Aug 2000 11 Mar 2001	1905	Hatch Death
[Death by: Unknown means]								
520	M	4 Sep 2000	292	290	NARC KHALIFA	4 Sep 2000 3 Apr 2003	1906	Hatch ltf

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521	?	4 Sep 2000	292	272	NARC	4 Sep 2000 5 Sep 2000	1911	Hatch Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
522	F	10 Sep 2000	292	229	NARC AL AIN PRIVATE	10 Sep 2000 15 Jun 2003 28 Feb 2005	1908	Hatch Transfer ltf
523	?	12 Sep 2000	285	251	NARC	12 Sep 2000 31 Oct 2000	1910	Hatch Death
[Death by: Unknown means]								
524	?	13 Sep 2000	264	284	NARC	13 Sep 2000 15 Sep 2000	1909	Hatch Death
[Death by: Unknown means]								
525	?	17 Sep 2000	292	206	NARC	17 Sep 2000 26 Sep 2000	1914	Hatch Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
526	?	19 Sep 2000	292	290	NARC	19 Sep 2000 22 Sep 2000	1915	Hatch Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
527	?	23 Sep 2000	264	224	NARC	23 Sep 2000 29 Sep 2000	1916	Hatch Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]								
528	M	30 Sep 2000	292	229	NARC AL AIN PRIVATE	30 Sep 2000 15 Jun 2003 18 Feb 2005	1917	Hatch Transfer ltf
529	?	18 Oct 2000	292	229	NARC	18 Oct 2000 7 Dec 2000	1923	Hatch Death
[Death by: Unknown means]								
530	?	24 Oct 2000	218	227	NARC	24 Oct 2000 3 Jan 2001	1924	Hatch Death
[Death by: Unknown means]								

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531	F	14 Nov 2000	292	227	NARC KHALIFA	14 Nov 2000 3 Apr 2003	1925 _____	Hatch ltf
532	?	24 Nov 2000	218	223	NARC	24 Nov 2000 28 Nov 2000	1926	Hatch Death
					[Death by: Unknown means]			
533	F	6 Aug 2000	67	371	PHOENIX JACKSONVL	6 Aug 2000 ~ 8 May 2001 ~20 Mar 2005	9233 601339	Hatch Transfer Death
					[Death by: Unknown means]			
534	F	8 Aug 2000	67	80	PHOENIX COLO SPRG	8 Aug 2000 22 May 2002 18 Oct 2011	9236 22A007	Hatch Transfer Death
					[Death by: Infection associated † Unknown † Musculoskeletal † Bacterial]			
535	?	22 Nov 2000	67	80	PHOENIX	22 Nov 2000 23 Nov 2000	9265	Hatch Death
					[Death by: Unknown means]			
536	F	14 Jan 2000	269	272	NARC AL AIN PRIVATE	14 Jan 2000 15 Jun 2003 28 Feb 2005	1777 _____ _____	Hatch Transfer ltf
537	M	17 Oct 2000	UNK	224	NARC	17 Oct 2000 18 Nov 2001	1779	Hatch Death
					[Death by: Infection associated † Unknown † Generalized † Unknown after necropsy]			
538	M	19 Jan 2000	218	251	NARC SHARJAHBR PRIVATE	19 Jan 2000 17 Feb 2003 17 Feb 2003	1780 AK010 _____	Hatch Transfer ltf
541	F	~ 1976	WILD	WILD	AFRICAN RUSHDEN SAARBRUCK	~ 1978 ~ 1978 23 May 1978 13 Sep 1980	NONE _____ _____	Capture Transfer Transfer Death
					[Death by: Injury from predator † Unknown † Generalized † Trauma]			

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542	F	7 Jul 2001	132	87	STCATHERN BIRMINGHM	7 Jul 2001 28 Oct 2002 7 Dec 2003	S01063 B02077	Hatch Transfer Death
[Death by: Unknown means]								
543	?	3 Jun 2001	366	78	PHOENIX	3 Jun 2001 11 Oct 2001	9394	Hatch Death
[Death by: Infection associated † Unknown † Respiratory † Fungal]								
544	M	8 Jun 2001	370	131	DALLAS ATLANTA SEDGWICK AUDUBON	8 Jun 2001 23 May 2002 27 Jan 2007 5 Oct 2010	01D912 A20002 11641 103200	Hatch Transfer Transfer Transfer
545	M	9 Jun 2001	370	131	DALLAS BIRMINGHM	9 Jun 2001 23 May 2002	01D914 B02018	Hatch Transfer
546	F	8 Sep 2001	143	119	NZP-WASH ATLANTA BIRMINGHM	8 Sep 2001 11 Aug 2002 23 Aug 2002	214841 A20020 B02066	Hatch Transfer Transfer
547	M	29 Sep 2001	143	119	NZP-WASH ATLANTA METROZOO	29 Sep 2001 11 Aug 2002 21 Nov 2008 14 Dec 2010	214849 A20019 B80369	Hatch Transfer Transfer Death
[Death by: Self-inflicted injuries † Unknown † Musculoskeletal † Trauma]								
548	M	~ 1997	WILD	WILD	AFRICAN OLMENSE	~ 1999 1 Apr 1999 24 Jan 2002	NONE OZ0293	Capture Transfer Death
[Death by: Unknown means]								
549	F	~ 1997	WILD	WILD	AFRICAN OLMENSE	~ 1999 1 Apr 1999 26 Jan 2002	NONE OZ0292	Capture Transfer Death
[Death by: Unknown means]								
550	F	~ 1990	WILD	WILD	TANZANIA	~ 1992	NONE	Capture

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				MAKTOUM		~ 1992	97B225	Transfer
						1 Oct 1996	97B225	Transfer
						12 Feb 1998	97B225	Transfer
						~ 2000		Death
				[Death by: Unknown means]				
551	F	~ 1991	WILD	WILD	TANZANIA	~ 1993	NONE	Capture
				MAKTOUM		~ 1993	97B226	Transfer
						1 Oct 1996	97B226	Transfer
						1 Jul 2010		Death
				[Death by: Unknown means]				
552	M	~ 1992	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B228	Transfer
553	M	~ 1993	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B229	Transfer
						6 Jul 1997		Death
				[Death by: Unknown means]				
554	M	~ 1991	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B230	Transfer
						16 Jun 1997		Death
				[Death by: Self-inflicted injuries † Incinerate † Integumentary † Trauma]				
555	M	~ 1992	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B231	Transfer
556	F	~ 1990	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B232	Transfer
						1 Jul 1997		Death
				[Death by: Infection associated † Incinerate † Generalized † Bacterial]				
557	F	~ 1991	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B233	Transfer
558	F	~ 1992	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
				MAKTOUM		15 Jun 1997	97B234	Transfer
						1 Jun 1998		Death

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[Death by: Unknown means]								
559	F	~ 1993	WILD	WILD	TANZANIA MAKTOUM	~ 1997 15 Jun 1997 1 Mar 1999	NONE 97B235	Capture Transfer Death
[Death by: Unknown means]								
560	F	~ 1994	WILD	WILD	TANZANIA MAKTOUM	~ 1997 15 Jun 1997 14 May 1999	NONE 97B236	Capture Transfer Death
[Death by: Injury from exhibit mate † Bury † Musculoskeletal † Trauma]								
561	F	~ 1995	WILD	WILD	TANZANIA MAKTOUM	~ 1997 15 Jun 1997 12 Mar 1998	NONE 97B237	Capture Transfer Death
[Death by: Injury from predator † Unknown † No necropsy planned]								
562	F	~ 1996	WILD	WILD	TANZANIA MAKTOUM	~ 1997 15 Jun 1997 1 Jun 1998	NONE 97B238	Capture Transfer Death
[Death by: Infection associated † Incinerate † Digestive † Protozoan]								
563	?	4 Oct 2001	218	223	NARC KHALIFA	4 Oct 2001 3 Apr 2003	2136 _____	Hatch ltf
564	M	11 Sep 2000	292	234	NARC AL AIN PRIVATE	11 Sep 2000 15 Jun 2003 18 Feb 2005	1907 _____ _____	Hatch Transfer ltf
565	M	20 Oct 1998	275	245	NARC	20 Oct 1998 2 Aug 2003	1227	Hatch Death
[Death by: Environ/Behav conditions † Unknown † Cardiovascular † Genetic/Prenatal]								
566	?	1 Dec 2000	218	245	NARC	1 Dec 2000 28 Feb 2001	1927	Hatch Death
[Death by: Euthanasia (medical) † Unknown † No necropsy planned]								
567	M	9 Jun 2000	292	223	NARC MAKTOUM	9 Jun 2000 2 Jul 2002	1866 A00209	Hatch Transfer

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						1 Jul 2010		Death
						[Death by: Unknown means]		
568	?	29 Oct 2001	279	229	NARC	29 Oct 2001	2137	Hatch
						29 Oct 2001		Death
						[Death by: Unknown means]		
569	?	15 Dec 2000	218	227	NARC	15 Dec 2000	1928	Hatch
					DUBAI	15 Dec 2000	_____	ltf
570	?	19 Dec 2000	252	216	NARC	19 Dec 2000	1929	Hatch
					DUBAI	19 Dec 2000	_____	ltf
571	M	16 Apr 2001	267	215	NARC	16 Apr 2001	2012	Hatch
					SAFA WILD	16 Apr 2001	_____	ltf
572	M	10 Apr 2001	372	210	NARC	10 Apr 2001	2006	Hatch
					SAFA WILD	16 Apr 2001	_____	ltf
573	F	12 Apr 2001	372	MULT	NARC	12 Apr 2001	2008	Hatch
					SAFA WILD	16 Apr 2001	_____	ltf
575	F	16 Aug 2002	192	99	SD-WAP	16 Aug 2002	802237	Hatch
					BALTIMORE	9 Oct 2003	3901	Transfer
						5 Jan 2006		Death
						[Death by: Self-inflicted injuries + Unknown + Respiratory + Trauma]		
576	F	~ 1990	WILD	WILD	KENYA	~ 1990	NONE	Capture
					OL JOGI	~ 1990	990074	ltf
577	F	~ Mar 1997	WILD	WILD	KENYA	~ Mar 1997	NONE	Capture
					OL JOGI	~ Mar 1997	990073	ltf
578	?	14 Sep 2001	132	UNK	STCATHERN	14 Sep 2001	S01076	Hatch
						14 Sep 2001		Death
						[Death by: Unknown means]		
579	F	~ 1965	WILD	WILD	AFRICAN	~ May 1966	NONE	Capture
					MILWAUKEE	31 Jul 1966	Y1554	Transfer

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						17 Jun 1967		Death
								[Death by: Unknown means]
580	F	~ 1963	WILD	WILD	AFRICAN	~ May 1965	NONE	Capture
					SEAGO	~ May 1965		Transfer
					MILWAUKEE	16 Jun 1965	Y1381	Transfer
						20 Sep 1965		Death
								[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]
581	M	~ 1985	WILD	WILD	AFRICAN	~ 1986	NONE	Capture
					NORTHLAND	~ 1986		Transfer
					SAN FRAN	15 Jan 1987	287002	Transfer
						31 Jan 1987		Death
								[Death by: Infection associated † Unknown † Generalized † Bacterial]
582	F	1 Oct 2002	565	251	NARC	1 Oct 2002	2303	Hatch
					AL AIN	15 Jun 2003		Transfer
						21 Feb 2005		Death
								[Death by: Unknown means]
583	F	4 Nov 1998	241	234	NARC	4 Nov 1998	1228	Hatch
					SHARJAHBR	20 Dec 2000	AK005	Transfer
						5 Mar 2005		Death
								[Death by: Self-inflicted injuries † Incinerate † Musculoskeletal † Trauma]
584	?	13 Oct 1998	275	244	NARC	13 Oct 1998	1225	Hatch
						20 Dec 2000		Death
								[Death by: Died in transit † Unknown † No necropsy planned]
585	M	~ 1995	WILD	WILD	AFRICAN	~ Jan 1998	NONE	Capture
					MILLER R	~ Jun 1998		Transfer
					SD-WAP	11 Jul 1998	898316	Transfer
586	M	15 Mar 2003	192	99	SD-WAP	15 Mar 2003	803031	Hatch
					METROZOO	12 Dec 2003	B30297	Transfer
						15 Jul 2005		Death
								[Death by: Euthanasia (medical) † Mounted or Preserved: FLORIDA NATURAL HISTORY MUSEUM, GAI † Digestive † Toxicity]

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587	M	5 Apr 2003	192	99	SD-WAP	5 Apr 2003	803043	Hatch
						6 Nov 2005		Death
						[Death by: Self-inflicted injuries † Unknown † Digestive † Trauma]		
588	F	14 Jun 2003	370	131	DALLAS	14 Jun 2003	03E753	Hatch
					TOLEDO	3 Jun 2004	3481	Transfer
589	F	16 Jun 2003	143	119	NZP-WASH	16 Jun 2003	215114	Hatch
						10 Jul 2003		Death
						[Death by: Infection associated † Unknown † Generalized † Bacterial]		
590	M	7 Jul 2003	143	119	NZP-WASH	7 Jul 2003	215123	Hatch
					DENVER	5 May 2004	A04146	Transfer
591	F	15 Jul 2003	143	389	NZP-WASH	15 Jul 2003	215128	Hatch
					BIRMINGHM	21 Apr 2004	204025	Transfer
						19 May 2008		Death
						[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]		
592	F	1 Aug 2003	143	389	NZP-WASH	1 Aug 2003	215131	Hatch
					SEDGWICK	13 May 2004	10812	Transfer
						~31 Jan 2006		Death
						[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]		
595	F	12 Jul 2003	370	131	DALLAS	12 Jul 2003	03E777	Hatch
					SEDGWICK	31 Mar 2005	11054	Transfer
						31 Mar 2005		Death
						[Death by: Died in transit † Unknown † Generalized † Metabolism]		
596	M	28 Jul 2003	370	131	DALLAS	28 Jul 2003	03E787	Hatch
						~15 Sep 2004		Death
						[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]		
597	M	17 Aug 2003	143	119	NZP-WASH	17 Aug 2003	215149	Hatch
					DENVER	5 May 2004	A04145	Transfer
						24 Aug 2007		Death
						[Death by: Euthanasia (medical) † Unknown † Respiratory † Mechanical abnormality]		
598	F	23 Aug 2003	143	389	NZP-WASH	23 Aug 2003	215150	Hatch

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					SEDGWICK	13 May 2004	10813	Transfer
						20 Jul 2010		Death
					[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]			
599	M	13 Jul 2003	192	99	SD-WAP	13 Jul 2003	803179	Hatch
						7 May 2004		Death
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]			
600	?	~ 1652	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I263	ltf
601	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I264	ltf
602	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I265	ltf
603	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I266	ltf
604	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I267	ltf
605	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I268	ltf
606	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I269	ltf
607	?	~ 1952	WILD	WILD	AFRICAN	~ Jan 1954	NONE	Capture
					L RUHE	~ Jan 1954	_____	Transfer
					HANNOVER	21 May 1954	I270	ltf

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608	F	10 Oct 2003	143	389	FRANKLINP	10 Oct 2003	F03482	Hatch
609	?	10 Oct 2003	143	389	FRANKLINP	10 Oct 2003 11 Oct 2003	F03483	Hatch Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
610	M	22 Oct 2003	143	389	METROZOO YULEE PHOENIX SD-WAP	22 Oct 2003 3 Nov 2004 ~10 Mar 2010 25 Oct 2011	B30250 Y45303 _____	Hatch Transfer Transfer Transfer
611	M	23 Oct 2002	143	389	METROZOO YULEE JACKSONVL	23 Oct 2002 3 Nov 2004 ~ Nov 2005	B30252 Y45304 606306	Hatch Transfer Transfer
612	F	19 Jun 2004	143	389	NZP-WASH PALM DES	19 Jun 2004 10 Mar 2005	215275 205003	Hatch Transfer
613	M	20 Jun 2004	143	389	NZP-WASH PALM DES	20 Jun 2004 10 Mar 2005 20 May 2008	215276 205002	Hatch Transfer Death
[Death by: Infection associated † Unknown † Musculoskeletal † Trauma]								
614	F	18 Jun 2004	370	131	DALLAS TUCSON KANSASCTY	18 Jun 2004 12 Jan 2005 2 Nov 2010	04F157 T55140 A10025	Hatch Transfer Transfer
615	M	6 Aug 2004	192	99	SD-WAP FRANKLINP	6 Aug 2004 26 Oct 2005 16 May 2011	804234 A05462	Hatch Transfer Death
[Death by: Anesth/Restraint assoc † Unknown † Generalized † Mechanical abnormality]								
616	?	21 Jun 2004	370	57	DALLAS	21 Jun 2004 22 Jun 2004	04F162	Hatch Death
[Death by: Unknown means]								
617	M	1 Jan 2005	192	99	SD-WAP	1 Jan 2005 7 May 2008	805001	Hatch Death

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[Death by: Euthanasia (medical) † Unknown † Generalized † Trauma]								
619	?	12 May 2005	428	448	WACO	12 May 2005	B04005	Hatch
						16 May 2005		Death
[Death by: Infection associated † Unknown † Generalized † Bacterial]								
620	M	27 May 2005	428	448	WACO	27 May 2005	B04105	Hatch
					SAN ANTON	~ 5 Feb 2006	F06024	Transfer
						16 Mar 2006		Death
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]								
621	M	24 Jun 2005	428	448	WACO	24 Jun 2005	B04205	Hatch
					COLO SPRG	16 May 2007	27A045	Transfer
622	F	26 Jan 2005	192	99	SD-WAP	26 Jan 2005	805011	Hatch
						4 Feb 2005		Death
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]								
623	F	3 Jun 2005	370	131	DALLAS	3 Jun 2005	05F831	Hatch
					CALDWELL	3 Jun 2005	105631	Transfer
					YULEE	29 Nov 2006	Y65301	Transfer
					DALLAS	22 Jun 2010	_____	Transfer
624	?	2 Sep 2005	455	251	NARC	2 Sep 2005	_____	Hatch
						3 Sep 2005	_____	Death
[Death by: Unknown means]								
625	F	10 Sep 2005	455	215	NARC	10 Sep 2005	11215	Hatch
					AL AIN	30 Aug 2010	B18033	Transfer
626	M	14 Oct 2005	455	251	NARC	14 Oct 2005	11218	Hatch
					DUISBURG	18 Jun 2008	5762	Transfer
627	M	15 Oct 2005	455	251	NARC	15 Oct 2005	11219	Hatch
					AL AIN	30 Aug 2010	B18031	Transfer
628	M	1 Jul 2006	143	389	NZP-WASH	1 Jul 2006	215552	Hatch
						10 Mar 2007		Death
[Death by: Infection associated † Unknown † Cardiovascular † Mechanical abnormality]								

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629	M	3 Jul 2006	143	389	NZP-WASH	3 Jul 2006	215553	Hatch
						15 Mar 2007		Death
								[Death by: Infection associated † Unknown † Cardiovascular † Mechanical abnormality]
630	F	26 Jun 2006	370	131	DALLAS	26 Jun 2006	06G677	Hatch
						2 Jul 2006		Death
								[Death by: Unknown means]
631	F	26 Jun 2006	370	131	DALLAS	26 Jun 2006	06G678	Hatch
						6 Nov 2007		Death
								[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
632	F	30 Aug 2006	143	389	NZP-WASH	30 Aug 2006	215576	Hatch
						18 Jun 2007		Death
								[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
633	F	~ Apr 2001	267	215	NARC	~ Apr 2001	_____	Hatch
					SAFA WILD	16 Apr 2001	_____	Transfer
					MAKTOUM	~ 2008	_____	ltf
634	F	~ 2002	WILD	WILD	AFRICAN	~ 2002	NONE	Capture
					DDNP	~ 2002	_____	Transfer
					BUDAPEST	29 Sep 2004	B00976	Transfer
					SZEGED	26 Oct 2004	2062	Transfer
					DUISBURG	20 May 2007	5367	Transfer
635	M	6 Apr 1993	UNK	UNK	OL JOGI	6 Apr 1993	990072	Hatch
						12 Sep 2000		Death
								[Death by: Injury from exhibit mate † Bury † Musculoskeletal † Unknown after necropsy]
636	M	~ 1992	WILD	WILD	AFRICAN	~ 1994	NONE	Capture
					LIENHARD	~ 1994	_____	Transfer
					BAYRAMOGL	13 Sep 1994	B00178	Transfer
						22 Dec 1997		Death
								[Death by: Unknown means]
637	F	~ 1995	WILD	WILD	TANZANIA	~ 1997	NONE	Capture
					WILDESHAU	~ 1997	_____	Transfer

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					BAYRAMOGL	15 Jan 1997	B00179	Transfer
						9 Jan 2002		Death
					[Death by: Environ/Behav conditions † Bury † Generalized † Trauma]			
638	M	~ 1983	WILD	WILD	AFRICAN	~ 1985	NONE	Capture
					MAN AE	~ 1985	_____	Transfer
					ANTWERP	10 Oct 1985	P1575A	Transfer
						8 Jan 1988		Death
					[Death by: Unknown means]			
639	F	~ 1964	WILD	WILD	AFRICAN	~ 1966	NONE	Capture
					SOEST	~ 1966	_____	Transfer
					DALLAS	21 Sep 1966	000Q17	Transfer
						30 Apr 1969		Death
					[Death by: Unknown means]			
640	?	15 Jun 2003	370	131	DALLAS	15 Jun 2003	03E754	Hatch
						15 Jun 2003		Death
					[Death by: Dead in shell † Unknown † Unknown (after necropsy)]			
641	?	20 Jun 2004	370	57	DALLAS	20 Jun 2004	04F160	Hatch
						20 Jun 2004		Death
					[Death by: Dead in shell † Unknown † Unknown (after necropsy)]			
642	?	~ 2002	WILD	WILD	AFRICAN	~ 2004	NONE	Capture
					DDNP	~ 2004	_____	Transfer
					BUDAPEST	29 Sep 2004	B00975	Transfer
						30 Sep 2004		Death
					[Death by: Unknown means]			
643	M	~ 1984	WILD	WILD	TANZANIA	~ 1986	NONE	Capture
					MAN AE	~ 1986	_____	Transfer
					HILVARENB	17 Sep 1986	V00212	Transfer
						23 Oct 1988		Death
					[Death by: Injury from exhibit mate † Incinerate † No necropsy planned]			
644	F	~ 1986	WILD	WILD	TANZANIA	~ 1986	NONE	Capture
					MAN AE	~ 1986	_____	Transfer
					HILVARENB	17 Sep 1986	V00213	Transfer

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						11 Jun 1989		Death
						[Death by: Injury from exhibit mate † Incinerate † No necropsy planned]		
645	F	~ 1969	WILD	WILD	AFRICAN	~ 1971	NONE	Capture
					CHASE B	~ 1971	_____	Transfer
					BROWNSVIL	17 Sep 1971	9025	Transfer
						7 Jan 1973		Death
						[Death by: Unknown means]		
646	M	~ 1969	WILD	WILD	AFRICAN	~ 1971	NONE	Capture
					CHASE B	~ 1971	_____	Transfer
					BROWNSVIL	17 Sep 1971	9026	Transfer
						12 Jul 1973		Death
						[Death by: Injury from exhibit mate † Unknown † Unknown (after necropsy)]		
647	M	~ 1969	WILD	WILD	AFRICAN	~ 1971	NONE	Capture
					CHASE B	~ 1971	_____	Transfer
					BROWNSVIL	14 Sep 1971	9027	Transfer
						3 Oct 1971		Death
						[Death by: Unknown means]		
648	F	~ 1969	WILD	WILD	AFRICAN	~ 1971	NONE	Capture
					CHASE B	~ 1971	_____	Transfer
					BROWNSVIL	14 Sep 1971	9028	Transfer
						18 Jul 1973		Death
						[Death by: Unknown means]		
649	F	~ 1995	UNK	UNK	UNKNOWN	~ 1995	_____	Hatch
					HERNE BC	~ 1996	_____	Transfer
					BLACKBROO	27 Mar 1998	200882	ltf
650	?	16 Apr 2007	455	251	NARC	16 Apr 2007	12298	Hatch
					AL AIN	30 Apr 2007	_____	ltf
651	?	18 May 2007	384	MULT	AUDUBON	18 May 2007	102218	Hatch
						22 May 2007		Death
						[Death by: Euthanasia (medical) † Unknown † Generalized † Metabolism]		
652	M	11 Jun 2007	370	131	DALLAS	11 Jun 2007	07H263	Hatch

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					WACO	26 Apr 2012	_____	Transfer
						1 May 2012		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
653	?	11 Jun 2007	370	131	DALLAS	11 Jun 2007	07H262	Hatch
						23 Jun 2007		Death
					[Death by: Injury from predator † Unknown † Generalized † Trauma]			
654	M	22 Jun 2007	143	389	NZP-WASH	22 Jun 2007	215631	Hatch
					PHOENIX	27 Mar 2008	11008	Transfer
655	F	23 Jun 2007	143	389	NZP-WASH	23 Jun 2007	215632	Hatch
					ATLANTA	5 Nov 2008	A80060	Transfer
656	M	3 Jul 2007	143	115	NZP-WASH	3 Jul 2007	215634	Hatch
					PHOENIX	27 Mar 2008	11009	Transfer
657	M	4 Jul 2007	143	389	NZP-WASH	4 Jul 2007	215635	Hatch
					NASHV ZOO	25 Feb 2008	2815	Transfer
						~ Aug 2010		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
658	?	16 Apr 2007	455	251	NARC	16 Apr 2007	12298	Hatch
					AL AIN	30 Apr 2007	_____	Transfer
						~15 Jul 2007		Death
					[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]			
659	F	1 Jul 2007	455	251	NARC	1 Jul 2007	12816	Hatch
660	F	2 Jul 2007	455	251	NARC	2 Jul 2007	12817	Hatch
						30 Jul 2007		Death
					[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]			
661	M	~ 2007	WILD	WILD	TANZANIA	~ May 2007	NONE	Capture
					BESTER	~ Jun 2007	_____	Transfer
					UMGENI PK	9 Aug 2007	3147	Transfer
						11 Dec 2011		Death
					[Death by: Self-inflicted injuries † Incinerate † Musculoskeletal † Unknown after necropsy]			

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662	F	~ 2007	WILD	WILD	TANZANIA BESTER UMGENI PK	~ May 2007 ~ Jun 2007 9 Aug 2007	NONE <hr/> 3148	Capture Transfer Transfer
663	M	26 Oct 2007	384	400	AUDUBON	26 Oct 2007 2 Dec 2007	102309	Hatch Death [Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Mechanical abnormality]
664	M	26 Oct 2007	384	438	AUDUBON ATLANTA	26 Oct 2007 5 Nov 2008	102310 A80059	Hatch Transfer
665	F	27 Aug 2007	143	389	WACO	27 Aug 2007 24 Feb 2008	B10807	Hatch Death [Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]
666	F	1 Oct 2007	455	251	NARC AL AIN	1 Oct 2007 30 Aug 2010	12830 B18032	Hatch Transfer
667	M	2 Oct 2007	455	215	NARC	2 Oct 2007 24 Mar 2010	12830	Hatch Death [Death by: Anesth/Restraint assoc † Unknown † Generalized † Trauma]
668	M	3 Oct 2007	455	251	NARC AL AIN	3 Oct 2007 30 Aug 2010	12832 B18030	Hatch Transfer
669	F	12 Mar 2007	455	251	MAKTOUM	12 Mar 2007 1 Jul 2010	A00752	Hatch Death [Death by: Unknown means]
670	?	14 Mar 2007	455	251	MAKTOUM	14 Mar 2007 14 Mar 2007	A00753	Hatch Death [Death by: Environ/Behav conditions † Incinerate † Cardiovascular † Metabolism]
671	M	18 Apr 2008	370	131	SEDGWICK NZP-WASH	18 Apr 2008 23 Sep 2008 22 Jun 2009	12067 215767	Hatch Transfer Death [Death by: Euthanasia (medical) † Unknown † Digestive † Toxicity]

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672	?	17 Apr 2008	370	131	DALLAS SEDGWICK	17 Apr 2008 17 Apr 2008	08H982 _____	Hatch ltf
673	?	4 May 2008	370	131	DALLAS	4 May 2008 20 May 2008	08J016	Hatch Death [Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Rickettsial]
674	?	5 May 2008	370	131	DALLAS	5 May 2008 7 May 2008	08J017	Hatch Death [Death by: Euthanasia (medical) † Unknown † Generalized † Genetic/Prenatal]
675	F	25 May 2008	384	400	AUDUBON	25 May 2008 2 Feb 2010	102538	Hatch Death [Death by: Injury from predator † Unknown † Generalized † Trauma]
676	M	28 Jun 2008	143	389	NZP-WASH PUEBLA	28 Jun 2008 26 Feb 2010	215754 7378	Hatch Transfer
677	F	29 Jun 2008	143	389	NZP-WASH	29 Jun 2008	215755	Hatch
678	F	18 Jun 2008	319	321	NURNBERG	18 Jun 2008	B03287	Hatch
679	M	5 Jul 2008	370	131	DALLAS PALM DES	5 Jul 2008 21 Jan 2010	08J267 210001	Hatch Transfer
680	M	5 Jul 2008	370	131	DALLAS NZP-WASH	5 Jul 2008 21 Sep 2010	08J268 215899	Hatch Transfer
681	F	17 Jul 2008	143	389	NZP-WASH	17 Jul 2008	215759	Hatch
682	M	17 Jul 2008	143	389	NZP-WASH PUEBLA	17 Jul 2008 26 Feb 2010 16 Jan 2012	215760 7379	Hatch Transfer Death [Death by: Infection associated † Unknown † Generalized † Trauma † Necropsy not received]
683	F	22 Aug 2008	143	389	PHOENIX	22 Aug 2008	11147	Hatch
684	F	~ 2005	WILD	WILD	TANZANIA BOCHOLT	~ Jan 2007 ~ Jan 2007	NONE _____	Capture Transfer

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					CAMBRON	4 Feb 2007	7672	Transfer
						~15 Dec 2007		Death
					[Death by: Unknown means]			
685	?	26 Apr 2008	384	400	AUDUBON	26 Apr 2008	102493	Hatch
						26 Apr 2008		Death
					[Death by: Unknown means]			
686	F	22 Jun 2009	143	389	NZP-WASH	22 Jun 2009	215818	Hatch
						28 Sep 2009		Death
					[Death by: Infection associated † Unknown † Generalized † Protozoan]			
687	M	23 Jun 2009	143	389	NZP-WASH	23 Jun 2009	215819	Hatch
					PHOENIX	16 Mar 2010	11395	Transfer
					FRANKLINP	~26 Apr 2012	A12411	Transfer
688	F	17 Jul 2009	611	430	JACKSONVL	17 Jul 2009	_____	Hatch
					SEDGWICK	8 Mar 2011	13252	Transfer
689	M	28 Jun 2009	152	131	DALLAS	28 Jun 2009	09J921	Hatch
						9 Apr 2010		Death
					[Death by: Euthanasia (medical) † Incinerate † Digestive † Mechanical abnormality]			
690	F	19 Jul 2009	153	356	METROZOO	19 Jul 2009	B90220	Hatch
					NASHVILLE	8 Sep 2010	3343	Transfer
					PHOENIX	11 Mar 2011	11695	Transfer
691	F	5 Aug 2009	143	389	ATLANTA	5 Aug 2009	A90051	Hatch
					PHOENIX	4 May 2010	11415	Transfer
692	M	6 Aug 2009	143	389	ATLANTA	6 Aug 2009	A90054	Hatch
					SEDGWICK	1 Jul 2010	_____	Transfer
693	M	17 Aug 2009	611	430	JACKSONVL	17 Aug 2009	_____	Hatch
						20 Jun 2010		Death
					[Death by: Self-inflicted injuries † Unknown † Integumentary † Trauma]			
694	F	~ 2007	WILD	WILD	TANZANIA	~ 2009	NONE	Capture
					DENVER	31 Mar 2009	A09033	Transfer

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695	F	19 Jul 2009	455	251	NARC	19 Jul 2009	14743	Hatch
						30 Aug 2010		Death
			[Death by: Anesth/Restraint assoc † Unknown † Musculoskeletal † Trauma]					
696	M	2 Oct 2007	455	625	NARC	2 Oct 2007	12831	Hatch ltf
697	M	~ 2005	WILD	WILD	TANZANIA	~ Jan 2007	NONE	Capture
					BOCHOLT	~ Jan 2007		Transfer
					CAMBRON	4 Feb 2007	7673	Transfer
698	F	26 Jun 2006	319	322	NURNBERG	26 Jun 2006	B03003	Hatch
699	F	~ 2006	UNK	UNK	TIMMENDOR	~ 2008		Transfer
					NURNBERG	4 Jul 2008	B03288	Transfer
						26 Apr 2010		Death
			[Death by: Unknown means]					
700	F	10 Mar 2010	367	99	SD-WAP	10 Mar 2010	810059	Hatch
					NZP-WASH	~ Jan 2011	215978	Transfer
701	M	~ Jun 2000	UNK	UNK	SAFA WILD	~ Jun 2000	441	Hatch
702	F	~ Jun 2000	UNK	UNK	SAFA WILD	~ Jun 2000	442	Hatch
703	F	~ 1993	UNK	UNK	SCHMIDING	~ Oct 1995	930203	Transfer
704	M	5 Jun 2010	143	389	NZP-WASH	5 Jun 2010	215882	Hatch
					WALSRODE	11 May 2011		Transfer
						11 May 2011		Death
			[Death by: Died in transit † Unknown † Generalized † Trauma]					
705	F	6 Jun 2010	143	389	NZP-WASH	6 Jun 2010	215883	Hatch
					WALSRODE	11 May 2011	BOR006	Transfer
706	F	21 Jun 2010	143	389	NZP-WASH	21 Jun 2010	215888	Hatch
					WALSRODE	11 May 2011	BOR007	Transfer
707	F	22 Jun 2010	143	389	NZP-WASH	22 Jun 2010	215889	Hatch

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						6 Oct 2010		Death
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]		
708	F	27 Jul 2010	153	356	METROZOO	27 Jul 2010	10B225	Hatch
						10 Aug 2010		Death
						[Death by: Euthanasia (medical) † Unknown † Digestive † Genetic/Prenatal]		
709	?	5 Aug 2010	611	430	JACKSONVL	5 Aug 2010	610353	Hatch
						26 Sep 2010		Death
						[Death by: Unknown means]		
710	F	20 Aug 2010	611	430	JACKSONVL	20 Aug 2010	610355	Hatch
					WALSRODE	26 Jul 2011	BOR009	Transfer
711	?	20 Jul 2010	611	430	JACKSONVL	20 Jul 2010	_____	Hatch
						20 Jul 2010		Death
						[Death by: Dead in shell † Unknown † Unknown (after necropsy)]		
712	M	30 Oct 2010	611	430	JACKSONVL	30 Oct 2010	610374	Hatch
					WALSRODE	26 Jul 2011	BOR008	Transfer
						15 Feb 2012		Death
						[Death by: Unknown means]		
713	F	~ 2008	WILD	WILD	TANZANIA	~ 2010	NONE	Capture
					DEALER	~ 2010	NONE	Transfer
					FORTWORTH	27 Sep 2010	206581	Transfer
714	M	7 Apr 2010	UNK	UNK	UNKNOWN	~ 2010	_____	Transfer
					LEHMANN	~ Jan 2010	_____	Transfer
					WALSRODE	9 Mar 2010	BOR005	Transfer
					NURNBERG	7 Apr 2010	B03337	Transfer
						20 Jun 2011		Death
						[Death by: Unknown means]		
715	F	1 Mar 2011	367	99	SD-WAP	1 Mar 2011	811019	Hatch
					PHOENIX	27 Mar 2012	12002	Transfer
716	F	~ 2008	UNK	UNK	PRIVATE	~ 2008	_____	Transfer
					CAMBRON	16 Apr 2009	8776	Transfer

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717	F	~ 1996	WILD	WILD	AFRICAN UNKNOWN SAFA WILD	~ 1996 ~ 1996 31 Dec 1996 1 Jan 1998	NONE _____	Capture Transfer 6 Transfer Death
[Death by: Environ/Behav conditions † Incinerate † Generalized † Trauma]								
718	F	~ 1996	WILD	WILD	AFRICAN UNKNOWN SAFA WILD	~ 1996 ~ 1996 31 Dec 1997 11 Jul 1999	NONE _____	Capture Transfer 7 Transfer Death
[Death by: Unknown means]								
719	F	~ 1996	WILD	WILD	AFRICAN UNKNOWN SAFA WILD	~ 1996 ~ 1996 31 Dec 1997 ~ Jun 2002	NONE _____	Capture Transfer 12 Transfer Death
[Death by: Unknown means]								
720	M	~ 1997	WILD	WILD	AFRICAN UNKNOWN SAFA WILD	~ 1997 ~ 1997 26 Jan 1998 ~ Jun 2002	NONE _____	Capture Transfer 70 Transfer Death
[Death by: Unknown means]								
721	F	~ 1997	WILD	WILD	AFRICAN UNKNOWN SAFA WILD	~ 1997 ~ 1997 26 Jan 1998 ~ Jun 2002	NONE _____	Capture Transfer 71 Transfer Death
[Death by: Unknown means]								
722	F	~ 1997	WILD	WILD	AFRICAN UNKNOWN SAFA WILD	~ 1997 ~ 1997 26 Jan 1998 31 Jan 1998	NONE _____	Capture Transfer 72 Transfer Death
[Death by: Infection associated † Incinerate † Respiratory † Bacterial]								
723	F	~ 1997	WILD	WILD	AFRICAN UNKNOWN	~ 1997 ~ 1997	NONE _____	Capture Transfer

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					SAFA WILD	26 Jan 1998	73	Transfer
						31 Jan 1998		Death
					[Death by: Other/Unknown † Incinerate † Respiratory † Unknown after necropsy]			
724	F	~ 1997	WILD	WILD	AFRICAN	~ 1997	NONE	Capture
					UNKNOWN	~ 1997		Transfer
					SAFA WILD	18 Feb 1998	83	Transfer
						~ Jun 2002		Death
					[Death by: Unknown means]			
725	M	~ 1997	WILD	WILD	AFRICAN	~ 1997	NONE	Capture
					UNKNOWN	~ 1997		Transfer
					SAFA WILD	18 Feb 1998	84	Transfer
						~ Jun 2002		Death
					[Death by: Unknown means]			
726	?	~ Feb 1996	WILD	WILD	AFRICAN	~ Feb 1996	NONE	Capture
					UNKNOWN	~ Jan 1999		Transfer
					BULAWAYO	~21 Feb 1999	990049	ltf
727	F	~ 2000	UNK	UNK	UNKNOWN	~ 2000		Hatch
					ALBUSTAN	~ 2002	BBK001	Transfer
						18 Oct 2006		Death
					[Death by: Injury from exhibit mate † Bury † Unknown (after necropsy)]			
728	?	17 Apr 2008	370	131	DALLAS	17 Apr 2008	08H983	Hatch
						17 Apr 2008		Death
					[Death by: Dead in shell † Unknown † Unknown (after necropsy)]			
729	M	~ 1982	WILD	WILD	KENYA	~ 1984	NONE	Capture
					RUSHDEN	14 Jul 1984	NONE	Transfer
					ALAREEN	5 Dec 1985	NONE	ltf
730	M	~ 1982	WILD	WILD	KENYA	~ 1984	NONE	Capture
					RUSHDEN	14 Jul 1984	NONE	Transfer
					ALAREEN	5 Dec 1984	NONE	ltf
731	F	25 Feb 2009	UNK	464	MAKTOUM	25 Feb 2009	A00898	Hatch

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							1 Jul 2010		Death
									[Death by: Unknown means]
732	M	24 Oct 2009	UNK	485	MAKTOUM	24 Oct 2009	A00899		Hatch
733	F	26 Oct 2009	UNK	485	MAKTOUM	26 Oct 2009	A00900		Hatch
734	M	1 Oct 2009	UNK	UNK	KEVI	1 Oct 2009	_____		Hatch
					MAKTOUM	1 Jan 2010	A10252		Transfer
735	M	3 Jun 2011	143	389	NZP-WASH	3 Jun 2011	215980		Hatch
					PHOENIX	22 Mar 2012	11995		Transfer
736	?	14 Jun 2011	435	429	TOLEDO	14 Jun 2011	_____		Hatch
						19 Jun 2011			Death
									[Death by: Euthanasia (medical) † Unknown † Respiratory † Genetic/Prenatal]
737	M	15 Jun 2011	143	389	NZP-WASH	15 Jun 2011	215985		Hatch
					PHOENIX	22 Mar 2012	11996		Transfer
738	M	27 Jul 2011	435	429	TOLEDO	27 Jul 2011	7407		Hatch
					PHOENIX	28 Mar 2012	12005		Transfer
739	F	9 Jun 2012	143	389	NZP-WASH	9 Jun 2012	216102		Hatch
740	F	10 Jun 2012	143	389	NZP-WASH	10 Jun 2012	216103		Hatch
741	M	~ 1 Apr 2012	545	546	BIRMINGHM	~ 1 Apr 2012	UNK		Hatch
742	?	~ Mar 2011	MULT	MULT	MAKTOUM	~ Mar 2011	UNK		Hatch
						27 Dec 2011			Death
									[Death by: Unknown means]
									Mult possible parents: Sires: 552 (50%), 555 (50%),
									Mult possible parents: Dams: 485 (50%), 557 (50%),

=====

TOTALS: 284.334.117 (735)

HISTORICAL HOLDING LOCATIONS

ABILENE Abilene Zoological Gardens

2070 Zoo Lane, Abilene, Texas, USA, 79604-0060

AFRICAN AFRICAN REGION

AL AIN Al Ain Zoo

PO Box 1204, Al Ain, Abu Dhabi, United Arab Emirates

ALBUTT C Mr. Clive Albutt

P.O. Box 1268, Kuruman, Cape Province, Rep. Of So. Africa, 8460

ALENTADO Exotics Unlimited (Antonio Alentado)

9564 SW 58th St., Miami, Florida, USA, 33149

ALPHEN Birdpark Avifauna

Postbox 31 - 2400 AA, Alphen A/d Rijn, Netherlands, 2404 HG

AMERSFOOR Dierenpark Amersfoort

Barchman Wuytierslaan 224, Amersfoort, Utrecht, Netherlands, 3819 AC

ANTWERP Zoo of Antwerp

Royal Zool.Society of Antwerp, Antwerp, Belgium, B2018

AREEN Areen Wildlife Sanctuary

Areen, Bahrain, Bahrain

ASHEBORO North Carolina Zoological Park

4401 Zoo Parkway, Asheboro, North Carolina, USA, 27205-9416

ATLANTA Zoo Atlanta

800 Cherokee Ave. SE, Atlanta, Georgia, USA, 30315-1440

AUDUBON Audubon Zoo

PO Box 4327, New Orleans, Louisiana, USA, 70178-4327

AUGSBURG Zoologischer Garten Augsburg GmbH

Brehmplatz 1, Augsburg, Germany, D-86161

BALTIMORE Maryland Zoo in Baltimore

1876 Mansion House Drive, Baltimore, Maryland, USA, 21217

BATONROUG BREC's Baton Rouge Zoo

P.O. Box 60, Baker, Louisiana, USA, 70704-0060

BAYRAMOGL Bosphorus Zoo (Bogaziçi Hayvanat

2013 International Studbook for the Kori Bustard *Ardeotis kori*

Bahçesi ve Botanik Parki), Kocaeli, Turkey, 41700

BERLIN TP Tierpark Berlin-Friedrichsfelde GmbH
Am Tierpark 125, D-10307 Berlin, Germany

BERLINZOO Zoologischer Garten Berlin AG
Hardenbergplatz 8, D-10787 Berlin, Germany

BESTER Bester Birds & Animals(Michael Bester)
P.O. Box 72378, Lynnwood Ridge 0040, South Africa

BIRMINGHAM Birmingham Zoo
2630 Cahaba Rd., Birmingham, Alabama, USA, 35223

BLACKBROO Blackbrook Zoological Park
Winkhill, Nr. Leek, Staffordsh, England, United Kingdom, ST13 7QR

BLUE RIB Blue Ribbon Pet Farm
Miami, Florida, USA

BOBENHEIM Vogelpark Bobenheim
Kleinerweg 1, Bobenheim-roxheim, Rhineland-palat, Germany, D-67240

BOCHOLT Frank Janssen
Veldstraat 9, Bocholt, Limburg, Belgium, 3950

BODE W Werner Bode
Zum Herrenfehn 3, 48455 Bad Bentheim, Germany

BOTSWANA BOTSWANA
South Africa, African Region

BRADENTON Frank Thompson Collection
15605 S. R. #64, Bradenton, Florida, USA, 33508

BROWNSVIL Gladys Porter Zoo
500 Ringgold St., Brownsville, Texas, USA, 78520

BUDAPEST Budapest Zool.& Botanical Garden
Allatkerti krt. 6-12, H-1146 Budapest, Hungary

BUFFALO Buffalo Zoological Gardens
300 Parkside Ave., Buffalo, New York, USA, 14214-1999

BULAWAYO Chipangali Wildlife Trust
PO Box AC 1310, Bulawayo, Zimbabwe, Zimbabwe

- BULVERDE NBJ Ranch (Buddy Jordan)
4580 Farm Road 1863, Bulverde, Texas, USA, 78163-2439
- CALDWELL Caldwell Zoo
PO Box 4785, Tyler, Texas, USA, 75712-4785
- CAMBRON Parc Paradisio S.A. de
Domaine de Cambron 1, Cambron-casteau, Belgium, B-7940
- CHASE B Charles (Bill) P. Chase Co. Inc.
7330 NW 66th St, Miami, Florida, USA, 33166
- CHICAGOBR Chicago Zoological Park
3300 Golf Rd., Brookfield, Illinois, USA, 60513
- CINCINNAT Cincinnati Zoo & Botanical Garden
3400 Vine St., Cincinnati, Ohio, USA, 45220-1399
- CLEVELAND Cleveland Metroparks Zoo
3900 Wildlife Way, Cleveland, Ohio, USA, 44109
- COLCHESTR Colchester Zoo
Maldon Road, Stanway, Essex, England, United Kingdom, CO3 0SL
- COLO SPRG Cheyenne Mtn Zoological Park
4250 Cheyenne Mountain Zoo Rd., Colorado Springs, Colorado, USA,
- DALLAS Dallas Zoo
650 South R.L. Thornton Freeway, Dallas, Texas, USA, 75203-3013
- DENVER Denver Zoological Gardens
City Park, Denver, Colorado, USA, 80205-4899
- DETROIT Detroit Zoological Society
8450 W 10 Mile Rd., Royal Oak, Michigan, USA, 48067-3001
- DISNEY AK Disneys Animal Kingdom
1200 N. Savannah Circle E., Bay Lake, Florida, USA, 32830-1000
- DUBAI Dubai Municipality
PO Box 67, Dubai, United Arab Emirates
- DUISBURG Zoo Duisburg AG
Mülheimerstrasse 273, Duisburg, N Rhine-westph, Germany, D-47058

E.AFRICA EAST AFRICA
African Region

FERNDALE International Animal Exchange, Inc.
25600 Woodward Ave., Suite 110, Royal Oak, Michigan, USA, 48067

FORTUNE Fortune Glen Aviaries
San Marco, California, USA

FORTWORTH Fort Worth Zoological Park
1989 Colonial Pkwy., Ft Worth, Texas, USA, 76110-6640

FOUTS J Tanganyika Wildlife Park (Jim Fouts)
1037 S 183rd St West, Goddard, Kansas, USA, 67052

FRANKFURT Frankfurt Zoo
Alfred-Brehm-Platz 16, Frankfurt Am Main, Germany, D-60316

FRANKLINP Zoo New England, Franklin Park Zoo
1 Franklin Park Rd., Boston, Massachusetts, USA, 02121

GRND PRAI Wildlife Management Services (Ext.)
601 Wildlife Pky., Grand Prairie, Texas, USA, 75050

GRONAU Tierpark Gronau
Konrad-Adenauer-Str. 1, Gronau, Lower Saxony, Germany, D-4432

GRUNWALD Zoo Grunwald
Via 1 Della, 00166 Rome, Italy

HANNOVER Zoo Hannover GmbH
Adenauerallee 3, Hannover, Germany, D-30175

HAYLE Paradise Park Wildlife Sanctuary
Hayle, Cornwall, England, United Kingdom, TR27 4HB

HERNE BC Herne Breeding Centre(Chris Bienvenue)
Kapellstrasse 64, 1540 Herne, Belgium

HIGASHI M Saitama Children's Zoo
554 Iwadono, Higashimatuyama, Saitama, Japan, 355-0065

HILVARENB Safaripark Beekse Bergen
Beekse Bergen 1, Hilvarenbeek, Netherlands

HOHENSTAD Walter Sensen

Hohenstadt, Schleswig-holst, Germany

JACKSONVL Jacksonville Zoo and Gardens
370 Zoo Parkway, Jacksonville, Florida, USA, 32218-5769

JOHANSBRG Johannesburg Zoological Gardens
Private Bag X13, Parkview, Gauteng, South Africa, 2122

KANSASCTY Kansas City Zoo
6800 Zoo Drive, Kansas City, Missouri, USA, 64132-1711

KENYA KENYA
East Africa, African Region

KHOMAS KHOMAS
South-west Africa, South Africa, African Region

KLEIN S Vogelgrosshandel (Stefan Klein)
Kaulenfeldstr. 2, Mettlach-ohn, Saarland, Germany, 66693

KNOXVILLE Knoxville Zoological Gardens
P.O. Box 6040, Knoxville, Tennessee, USA, 37914

KRAAIFONT Tygerberg Zoopark
P.O. Box 524, Kraaifontein, Western Cape, South Africa, 7569

KREFELD Zoo Krefeld GmbH
Uerdinger Strasse 377, Krefeld, N Rhine-westph, Germany, D-47800

L RUHE Louis Ruhe GmbH (1860-1995)
Gerdag Strasse 8, 3220 Alfeld/leine, Germany

LOWRY Tampa's Lowry Park Zoo
1101 W Sligh Ave, Tampa, Florida, USA, 33604-5958

MAGDEBURG Zoologischer Garten Magdeburg
Am Vogelsang 12, Magdeburg, Sachsen-anhalt, Germany, D-39124

MAKTOUM H.E. Sheikh Butti Bin Juma at
Maktoum Wildlife Centre, Dubai, United Arab Emirates

MALLORCA Auto Safari Reserva Africana
Mallorca, Baleares, Spain
567854

MAN AE A.E. Man In't Veld & Zn
Deventerstraat 494, Apeldorn, Holland, Netherlands

MATTICE R Sunbird International (R. Mattice)
Los Angeles, California, USA

MERRITT R Universal Birds (Rex D Merritt)
41 St John's Road, Southampton, Hants, England, United Kingdom, SO30

METROZOO Miami Metrozoo
(One Zoo Boulevard), Miami, Florida, USA, 33177-1402

MILLER R Richard Miller, DVM
5700 SW 130th Avenue, Ft. Lauderdale, Florida, USA, 33330

MILWAUKEE Milwaukee County Zoological Gardens
10001 W Bluemound Rd, Milwaukee, Wisconsin, USA, 53226-4384

MOLINAR L. Molinar
Turin, Piemonte, Italy

MUNICH Muenchener Tierpark Hellabrunn
Tierparkstrasse 30, Muenchen, Germany, D-81543

NARC National Avian Research Center
Envir.Research&Wildf Dev.Agency, Abu Dhabi, United Arab Emirates

NASHVILLE Opryland USA
2802 Opryland Dr., Nashville, Tennessee, USA, 37214

NORTHLAND Northland Wildlife
2601 E Highway 169, Grand Rapids, Minnesota, USA, 55744

NURNBERG Tiergarten D. Stadt Nürnberg
Am Tiergarten 30, D-90480 Nürnberg, Germany

NY BRONX Bronx Zoo/Wildlife Conservation Society
2300 Southern Blvd., Bronx, New York, USA, 10460-1099

NZP-WASH Smithsonian National Zoological Park
3001 Connecticut Avenue NW, Washington, District Of Columbia, USA,

OKLAHOMA Oklahoma City Zoological Park
2101 NE 50th St., Oklahoma City, Oklahoma, USA, 73111-7199

OL JOGI Ol Jogi Ltd.
PO Box 259, Nanyuki, Kenya

- OLMENSE Olmense Zoo
Bukenberg 45, 2491 Olmen-balen, Belgium
- OMAHA Omaha's Henry Doorly Zoo
3701 South 10th St., Omaha, Nebraska, USA, 68107-2200
- PAIGNTON Paignton Zoo Environmental Park
Totnes Road, Paignton, Devon, United Kingdom, TQ4 7EU
- PALM DES The Living Desert Zoo and Gardens
47-900 Portola Ave., Palm Desert, California, USA, 92260
- PHILADELP The Philadelphia Zoo
3400 W Girard Ave., Philadelphia, Pennsylvania, USA, 19104
- PHOENIX Phoenix Zoo
455 N Galvin Pky, Phoenix, Arizona, USA, 85008-3431
- PINEFARM Pinefarm Conservancy (Rolf Hangartner)
PO Box 70, Mutorashanga, Mashonaland W, Zimbabwe
- PLANCKNDL Wild Animal Park Mechelen Planckendael
Royal Zool. Society of Antwerp, Mechelen (muizen), Belgium, B2812
- PRIVATE Private Collection
- PUBLIC General Public
- PUEBLA Africam Safari
11 Oriente #2407, Puebla, Puebla, Mexico, CP 72007
- RIYADH Riyadh Zoological Gardens
P.O. Box 27055, Riyadh 11417, Saudi Arabia
- ROBERTSE Farm "Sutton" (S. Robertse)
PO Box 16, Rondebult, Natal, South Africa, 1421
- RODE Tropical Bird Gardens
Rode, Somerset, England, United Kingdom, BA3 6QW
- ROMA Rome Zoo-Fondazione Bioparco di Roma
Viale del Giardino Zoologico, 20, Rome, Italy, I-00197
- ROTTERDAM Rotterdam Zoo
Postbus 532, 3000 Am Rotterdam, Netherlands

- RUSHDEN Ravensden Zoo Ltd.
Ravensden Farm, Rushden, Northants, England, United Kingdom, NN10 0SQ
- S.AFRICA SOUTH AFRICA
African Region
- SAARBRUCK Zoologischer Garten Saarbruecken
Graf Stauffenberg Strasse, 66121 Saarbrücken, Germany
- SAFA WILD Wadi Al Safa Wildlife Centre
PO Box 27875, Dubai, United Arab Emirates
- SAFARI W Safari West
3115 Porter Creek Rd., Santa Rosa, California, USA, 95404
- SAN ANTON San Antonio Zoological Gardens & Aqua
3903 N. St. Mary's Street, San Antonio, Texas, USA, 78212-3199
- SAN FRAN San Francisco Zoological Gardens
1 Zoo Rd., San Francisco, California, USA, 94132-1098
- SANDIEGOZ San Diego Zoo
PO Box 120551, San Diego, California, USA, 92112-0551
- SCHMIDING Zoologischer Garten Schmiding
Schmidingerstrasse 5, Krenglbach, Austria, A-4631
- SCHNEIDER Marcus Schneider
Private Bag 2, Truro, South Australia, Australia, 5356
- SD-WAP San Diego Wild Animal Park
15500 San Pasqual Valley Rd, Escondido, California, USA, 92027
- SEAGO John Seago
Nairobi, Nairobi, Kenya
- SEATTLE Woodland Park Zoological Gardens
601 N. 59th St., Seattle, Washington, USA, 98103-5858
- SEDGWICK Sedgwick County Zoo
5555 Zoo Blvd., Wichita, Kansas, USA, 67212-1698
- SHARJAH Sharjah Natur. History Mus & Desert Pk
(Arabian Leopard Trust), Sharjah, United Arab Emirates

SHARJAHBR Sharjah Breeding Centre For Endangered
Arabian Wildlife, Sharjah, United Arab Emirates

SOEST G. Frans Van Den Brink
B.V., Lutteresweg 14a, 7775 Pp Lutten, Netherlands

SOUTHWICK Southwicks Zoo
2 Southwick St., Mendon, Massachusetts, USA, 01756

STCATHERN St. Catherines Island / WCS
182 Camellia Road, Midway, Georgia, USA, 31320-9801

SUZUKI N Mr. Noboru Suzuki
6-27-4 Honcho, Shiki, Saitama 353, Japan

SZEGED Szeged Zoo
PO Box 724, Szeged, Cserepes-sor, Hungary

T HART Siem van 't Hart Flora en Fauna B.V.
Kralingseweg 443, Rotterdam, Netherlands, 3065 RG

TANZANIA TANZANIA
East Africa, African Region

TIMMENDOR Vogelpark und Eulengarten Niendorf
An der Aalbeek, Niendorf, Schleswig-holst, Germany, D-23669

TOLEDO Toledo Zoological Gardens
PO Box 140130, Toledo, Ohio, USA, 43614-0801

TRANSVAAL GAUTENG (Transvaal)
South Africa, South Africa, African Region

TUCSON Reid Park Zoo
1100 S Randolph Way, Tucson, Arizona, USA, 85716

UMGENI PK Umgeni River Bird Park
PO Box 35205, Northway, South Africa, 4065

UNKNOWN Unknown Location

V.D.BRINK J.V.D. Brink (Jabria) (Extinct)
Harderwijk, Gelderland, Netherlands

VIENNA Schoenbrunner Tiergarten GmbH
Zoo Vienna, A-1130 Wien, Austria

WACO Cameron Park Zoo
1701 N. 4th St., Waco, Texas, USA, 76707-2463

WALDON W Waldon West BirdRanch-Nancy L Crawford
25543 Waldon Road, Menifee, California, USA, 92584

WALSRODE Vogelpark Walsrode
Am Rieselbach, D-29664 Walsrode, Germany

WESMI Wesmi Establishment
PO Box 6001, Jeddah, Makkah, Saudi Arabia, 21442

WILDESHAU Tiergarten Hubertus (Hubert Breckweg)
Am Reiterfeld 1, Wildeshausen, Lower Saxony, Germany, D-2878

WORLDWIDE Worldwide Primates (Matt Block)
PO Box 971279, Miami, Florida, USA, 33197-1279

WUPPERTAL Zoologischer Garten Wuppertal
Hubertusallee 30, Wuppertal, N Rhine-westph, Germany, D-42117

YULEE White Oak Conservation Center
White Oak Plantation, Yulee, Florida, USA, 32097-9807

ZEEHANDLR Fred Zeehandelaar Inc
6 Sickles Ave., New Rochelle, New York, USA, 10801

ZOO IMPRT Zoological Imports 2000, Inc.
16225 SW 172 Avenue, Miami, Florida, USA, 33187

KORI BUSTARD ETHOGRAM

From: Lichtenberg, E.M. and Hallager, S. 2007. A description of commonly observed behaviors for the kori bustard (*Ardeotis kori*). *Journal of Ethology* 26(10): 17-34.

Behavior	Description
<u>Resting behaviors</u>	
Alert	Bird sits on the ground or stands with its eyes open.
Resting	Bird sits or stands with its eyes closed.
Hock sitting	Bird sits with its tarsi on the ground and tibiae vertical, leaving the belly raised off the ground.
Wet weather standing	During periods of light to heavy rain, bird tucks its head tightly against the back of its neck, giving it a hunched appearance. During poor weather, bird may stand under a bush for protection from the elements.
<u>Comfort/maintenance behaviors</u>	
Scratching	Bird scratches body (i.e., neck and head areas) using a toe.
Stretching	Bird stretches its leg, wing, or body, and typically involves stretching the wing and leg on the same side of the body. During a body stretch, neck is extended forward, body is lowered slightly, and wings are raised.
Wing flapping	Bird extends its wings and flaps them several times, often in conjunction with stretching or jumping.
Body fluffing	Bird briefly erects feathers on the neck, wings, and back.
Ruffling	Bird shakes its body, with movement passing as a wave from head to tail, which is usually slightly fanned.
Preening	Birds use their bill to straighten the feathers on their breast, neck, tail, legs, or wings. Preening is performed while sitting or standing, and the birds' eyes are often closed.
Toe picking	Bird uses bill to pull at a toe or nail, while standing on one leg.
Dust bathing	Bird lies flat and rubs its belly, head, neck, and wings on the ground, in a sandy or dusty depression. Feathers are ruffled during bathing.
Sun bathing	Bird sits in the direct sun (often near a bush or short grass clump) with one or both of its wings spread horizontal to the ground. Sun bathing

Behavior	Description
	often leads to heavy panting, and is always followed by preening.
Bill gaping	Bird briefly opens mouth wide.
Bill open	Bird partially opens bill for several seconds.
Panting	Bill is slightly open and the gular skin is moved back and forth. Panting is a cooling mechanism.
Tail erection	Birds raise their tails vertically and fan their tail feathers out. Tail erection occurs commonly after rain has ended, and may help in drying.
<u>Locomotion</u>	
Walking	Bird moves about on the ground at a leisurely pace (e.g., 1kmph). Walking is the primary mode of locomotion for kori bustards.
Running	Bird moves faster (at running human speed), with head held high and extended, or low and horizontal to the ground. Wings may be extended or held close to body. Running is used for avoiding predators.
Flying	Birds take off into the wind following a short run and wing flapping. Flying is also used for predator avoidance.
Jumping	Bird will jump into the air (up to 7 feet) without a running start. Jumping may be a means of evading terrestrial predators.
<u>Feeding behavior</u>	
Drinking	Birds drink while standing or hock sitting by submerging the beak in water, using tongue or throat motions to suck in water, and then raising the head to around a 45° angle to gulp down the water.
Foraging	Birds search for food while walking and looking down at the ground. Birds can also jump for food that is out of their reach.
Feeding	Birds peck at food within their reach or snap at jumping or flying prey with their bill. Larger vertebrates are shaken or struck against the ground before being swallowed whole; small items are just swallowed.
Grit eating	Birds peck at and ingest grit or small pebbles to aid in digestion.
Bill wiping	Bird rubs the sides of its bill along the ground, a tree trunk, or other object, to remove any debris attached to the bill.
Defecation	Fecal matter is excreted mainly while walking, or during short pauses,

Behavior	Description
	and typically when the bird wakes in the morning. Smaller amounts are excreted throughout the day. Defecation is also part of a fear response.
<u>Social behavior</u>	
Aggressive displacement	One bird chases another bird, by lowering its head, raising its head crest, ruffling its plumage slightly, and aiming its body towards it. Pursuit will often continue until the other bird it is out of sight.
Non-aggressive displacement	One bird walks toward another bird, causing the second bird to vacate its position and move elsewhere. Females do not displace adult males.
Fighting (males)	Birds grasp each other's beaks and shove each other, with feathers fluffed out and tails raised. May establish dominance during breeding.
Aggressive head pecking	A dominant bird pecks at the head of a subordinate bird for a short period of time, usually with no injuries.
Tail lifting	Sitting or standing bird lifts tail up to a 90° angle, fans out tail feathers, and then lowers the tail. Behavior may be repeated multiple times, and may be accompanied by erection of the head crest feathers. Occurs when birds approach. Males do not tail-lift to approaching females.
Threat posture	A standing bird lifts its tail and fans its tail feathers; its wings are outstretched, its plumage ruffled, and its head extended forward. The wings and tail may be vibrated.
<u>Inter-specific threat response</u>	
Skyward looking	Alert bird extends its head and cocks it upward, and may also tilt the head sideways so only one eye is facing upwards.
Crest up	Bird erects head crest feathers in response to a potential threat.
Neck fluffing	Bird erects neck feathers and head crest to increase its apparent size.
Tail spreading	Bird raises tail vertically and fans tail feathers as a defense posture against aerial predators.
Predator defense display	Bird crouches with its tail raised and fanned, wings loosely tucked to the body, and with its head and neck extended upwards in response to a potential or perceived predator flying overhead.
<u>Sexual behavior</u>	
Chasing females (males)	Males chase females with raised head crest and tail. Pursuit will often cease if females run away out of view.

Behavior	Description
Tail up position (males)	Males stands or walks with tail raised and fanned, wings held close to the body, and head crest erect, to attract the attention of females.
Partial balloon display (males)	Males stand with neck partially inflated, tail raised up, and head crest erect.
Balloon display (males)	Male extends neck and fully inflates the esophageal pouch (up to 4 times normal size) with the bill pointed upward. The tail and wing feathers point downward and the head crest is erect. Bird emits a low-pitched booming sound as bill is snapped open and shut. The balloon display is the most intense form of courtship.
Copulation initiation (females)	Female initiates copulation by sitting down near a displaying male to allow him to approach her from behind.
Head pecking (males)	Male approaches sitting female, and pecks (for 5-10 minutes) at the back of her head, stepping from one side of the female to the other.
Squatting and pecking (males)	Male squats on his hocks while continuing to peck at the female's head. This element of copulation generally lasts 5 minutes.
Mounting (males)	Male spreads wings, climbs onto the back of the seated female and transfers sperm (taking only a few seconds).
Post-copulation feather shaking	Males and females stand up after copulations and vigorously shake their feathers before resuming normal activities.
<u>Maternal behavior</u>	
Pacing (females)	The female walks back and forth in a particular area, faster than when just walking, for a few minutes or for several hours prior to egg-laying.
Incubating (females)	Females sit on eggs after first or subsequent eggs are laid. Incubating females rarely leave the nest, but will do so for behaviors such as feeding, dustbathing, and sunbathing.
Egg turning (females)	Females stand over the nest and rotate their eggs with their bills several times throughout the day and night.
Nest building (females)	Sitting female throws leaf litter and small sticks onto her back while incubating.
Parental care behavior (females)	Females in zoos are highly protective of the chicks and will act aggressively towards other females and keepers. Female will pick up food and present it to the chicks, bending her head and neck down while holding the food in her bill, and salivating copiously. The female

Behavior	Description
	produces a quiet vocalization when feeding the chicks.
<u>Vocalizations</u>	
Barking	Nervous or startled birds produce a soft, gruff “bark”, also called a “gronk” call. Barking birds typically stand, remain focused on the cause of concern, and may move away from this object.
Growling	A soft “rrrrr” sound, similar to a cat’s growl. Females may growl when defending eggs or chicks, or when handled by keepers.
Booming (males)	A low-pitched booming vocalization produced by males in the breeding season when the bill is snapped open and shut. Males emit 6 calls in rapid succession, and may repeat the 6-call cycles for several minutes.
Chick chirp	A light chirp or purring sound produced by chicks being fed or brooded.
Chick cry	Stressed, chicks produce a long, sad whistle that can escalate into a loud wailing.
Grunting (females)	A low- to high-pitched sound produced by females to call their chicks, especially when food is available.
Roaring	A very loud vocalization similar to a lion’s roar, often occurring when birds are initially captured.

BASIC BUSTARD HUSBANDRY

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Introduction

This article presents key facts for aviculturalists who are working with bustards maintained in either breeding projects or zoological collections. Further information on how to manage bustards in captivity may be found in the references at the end of this article.

Bustards

The bustard family is made up of 25 species in 11 genera. Four species, including the great Indian bustard (*Ardeotis nigriceps*), are listed by the IUCN (International Union for Conservation of Nature and Natural Resources) Red List of Threatened Animals as Endangered. One species is listed as vulnerable and an additional six are listed as near-threatened (del Hoyo et al. 1996). Bustards are medium sized to large terrestrial birds, chiefly inhabiting open plains in either arid or seasonally dry regions of the old world. Agricultural changes, overgrazing, hunting, trapping, habitat loss, droughts and wars are the main threats to bustards (del Hoyo et al. 1996). In recent years, there has been a surge of interest in the propagation of bustards in captivity, in particular, the houbara bustard (*Chlamydotis undulata*) in the Middle East and North Africa (Saint Jalme and Van Heezik, 1996). Similar programs for vulnerable and threatened species of bustards such as the great bustard (*Otis tarda*) have been established in Europe and the former Soviet Union as well as for the kori bustard (*Ardeotis kori*) in the United States. Programmes with threatened bustard species aim to produce surplus birds for release into protected areas, thereby supplementing declining wild populations, while houbara bustard projects in the Middle East and N. Africa aim to provide surplus birds for sustainable hunting using falcons (Bailey et al, 1996). Captive breeding programmes in the United States for kori bustards and buff-crested bustards (*Eupodotis ruficrista*) aim to maintain populations that are genetically and demographically self-sustaining and do not rely on continued imports from the wild (Hallager and Ballou, 2001).

Husbandry

Housing - Differences exist in the housing of bustards both between and within species and according to the region in which the birds are maintained in captivity. In the Middle East, captive houbara are managed in an extreme climate outside of their natural breeding range, and they are maintained in environmentally controlled buildings. In North Africa, where captive houbara are bred within their natural breeding range, birds are maintained in outdoor aviaries. In the United States, kori bustards are maintained in outdoor pens, which are equipped with heated shed areas, where the birds are housed in during periods of inclement winter weather. Smaller species such as the buff-crested bustard and white-bellied bustard (*Eupodotis senegalensis*) are kept in both indoor and outdoor aviaries and provided with supplemental heat during the winter months if housed outdoors and/or moved into winter holding facilities. The provision of shade and shelter are important for birds managed outdoors in tropical and temperate climates respectively, as is the use of predator-proof fencing material. All species of bustard are susceptible to frostbite and supplemental heat must be supplied when temperatures drop below

4°C. Outdoor aviaries may have alfalfa beds in addition to natural vegetation. This provides birds with cover to hide in and also encourages foraging for invertebrates attracted to the vegetation. Trauma is an important cause of morbidity and mortality of all captive bustards, so great attention is paid to using 'soft' materials when pens are constructed. Additionally, pinioning of chicks or feather cutting (primaries) of adults are important management tools to reduce the potential for self-inflicted injuries. Strict biosecurity of large captive breeding projects is an important issue. Smaller bustard species can be exhibited in mixed aviaries. Kori bustards should preferably be housed by themselves to facilitate breeding, but if necessary, can be maintained in mixed species exhibits with non-aggressive hoofstock.

Diet and feeding - Bustards are opportunistic omnivores and in the wild the diet reflects the local and seasonal abundance of plants and small animals, including invertebrates and small vertebrates. Studies of gut contents have shown that vegetation constitutes a significant proportion of the diet of some free-living bustards (del Hoyo et al. 1996). However, studies on the gut contents of kori bustards in Namibia have revealed mostly insects and very little plant material (T. Osborne, pers. communication). In captivity, bustards are fed mice, mealworms, crickets, apple, cabbage, chopped greens and either bustard pellets, game bird pellets, or a mixture of crane and ratite pellets (Sleigh and Samour, 1996). Beef mince can be used to replace mice or mealworms if either component is unavailable. Kori bustards in United States zoos are fed horsemeat in addition to mice and the meat is supplemented with either crane and ratite pellets or game bird pellets. The mixture is made into small meatballs and hand-tossed to each bird. This method of feeding facilitates close inspection of each bird as well as helps forming a trusting bond between the keeper and each bird. Pinkie mice are fed to smaller species of bustards, while fuzzie or adult mice are fed to the larger species such as kori bustards.

Calcium carbonate may be added to the fresh food mixture to compensate for the calcium imbalance that is caused by the addition of live food/mince. Multivitamin supplements (e.g. SA37; 1 g per 10 kg bodyweight) are provided to birds maintained in the Middle East (Sleigh and Samour, 1996). Maintenance pellets (15% protein) are fed to birds outside the breeding season and productioner pellets (20.5% protein) are fed during the breeding season (Anderson, 1998; Sleigh and Samour, 1996).

Food is presented in plastic or aluminium food dishes either once or twice a day. Water is provided ad-lib. Additional live food such as mealworms or crickets may be supplemented as part of taming protocols to reduce keeper-induced stress. To encourage natural foraging behavior, supplement the daily diet and provide a form of enrichment, chopped green beans, cherry tomatoes, hard-boiled egg, and blueberries are provided twice a week to kori bustards.

Medications may be given to specific birds within favoured items such as mice. Bustard chicks, like those of other long-legged species, are susceptible to long-bone disorders and chick-rearing diets must be supplemented with Vitamin D3 (e.g. Neutrobal, Vetark). Angel wing is a common occurrence in hand-reared kori bustard chicks, typically occurring at day 11-14. Taping the affected primaries in a natural position at the first sign of the outward turning will permanently correct the deformity. A definitive cause of the problem has not been determined (Boylan et al. 2001).

Capture - Correct methods must be used to catch and handle bustards to avoid injuries. For birds maintained in outside aviaries in the Middle East, as well as North American zoos in the southwest, catches are carried out early in the morning to reduce the risk of heat stress. In the

Middle East multivitamin solutions are given in the water before large catches to reduce the potential for capture-related myopathies. The specific methods for catching birds depend on the species, aviary size and the reason for the catch (translocation, medication, artificial insemination). Single small-medium sized birds in small outside aviaries are caught with catching nets. Single tame bustards in small indoor aviaries are caught by hand, after herding the bird into a corner. Flocks of birds in large aviaries can be captured using a catching corral. This is a blind-ended funnel with a wide mouth and a circular catching area at the blind end. Small and medium sized bustards can be caught using nets in the blind end, while larger species like kori bustards are caught by slowly guiding them into a small-darkened shed, cornering them and grabbing by hand. Nets should not be used with kori bustards.

Handling - Bustards should be held firmly against the handler's body, the wings should be fully closed and the legs held together, but prevented from rubbing against each other by positioning fingers between them. Legs can be held so that the legs are bent at the tibiotarsal joint. Some movement of the leg is allowed without letting the bird kick uncontrollably. Falcon hoods or cloth bags with holes for the nares can be used to calm birds down although hand-reared birds may be more comfortable without hoods. Birds should be kept as sternal as possible while being held as this reduces stress levels.

Transportation - Small bustards (up to 2 kg) can be transported in commercial pet carriers or cardboard boxes. Larger bustards, such as kori bustards can be transported individually in transport crates. Crate requirements for all bustard species can be found in the International Air Transport Association manual (IATA, 1998).

Individual identification - Bustards in captivity can be individually identified using coloured plastic rings with engraved coding attached above the tibiotarsal joint for visual identification of individuals in pens. Birds are also identifiable by means of a subcutaneous passive induced transponder (PIT), which is placed in the inner crural region of the leg.

Routine health care - Bustards in the Middle East have succumbed to variety of diseases, notably trichomoniasis, Newcastle disease and avian pox. Preventive medicine programmes include annual vaccination with inactivated Newcastle disease vaccine, live canary pox vaccine and regular (2-3 x year dependant on risk) anthelmintic and antiprotozoal medication given in the water or food. Vaccines are given during health-assessment catches held 1-2 months before the breeding season and during the cool season in the Middle East. Within the United States, internal parasites are occasionally seen and avian pox has been reported in two chicks. Vaccines are not routinely administered in the United States. Kori bustards in zoo settings need to be carefully monitored for signs of impaction and zinc toxicity as they have a particular tendency to consume items thrown into their enclosures (e.g. pennies, camera batteries, nails, etc) by visitors. Daily inspection of pens and the removal of foreign material are very important.

Breeding Management

Sexing - Bustards show sexual dimorphism (Table 1). Some smaller species such as white-bellied bustards can be sexed by differences in head and throat plumage. Larger species, e.g. kori, are easily sexed at one year of age, for although the plumage of both sexes is similar, males

are considerably larger. Juvenile bustards can also be sexed using endoscopy after about 6 months of age. Genetic sexing offers many advantages, being non-invasive and if done from feathers or blood collected from freshly hatched chicks, it can allow different sexes to be reared under different protocols.

Table 1. Adult bodyweight of bustards.

Species	♂ (kg)	♀ (kg)
Great bustard (<i>Otis tarda</i>)	6-8.5	3.8-4.5
Kori bustard (<i>Ardeotis kori struthinuculus</i>) ¹	10-18	6-7
Kori bustard (<i>Ardeotis kori kori</i>) ²	7-14	3-6
Houbara bustard (<i>Chlamydotis undulata</i>)	1.5-2.5	0.8-1.4
White-bellied bustard (<i>Eupodotis senegalensis</i>)	1.0-1.3	0.9-1.1
Buff-crested bustard (<i>Eupodotis gindiana</i>)	0.4-0.8	0.4-0.6

¹ subspecies maintained in United States zoos

² subspecies maintained in the Middle East

Breeding strategies - Bustards are K-selected species - long-lived and a low reproductive output (del Hoyo et al. 1996). Management strategies for breeding vary according to the species but there are basically three regimes (Table 2). In most species, males and females do not establish a true pair-bond, and depend instead on a dispersed lek breeding system in which the males advertise themselves in traditional areas. Male bustards perform elaborate displays to attract females and maintain a dominance hierarchy. The females are left alone to undertake nesting, incubation, and rearing of the young. In captivity, houbara bustards managed as pairs or as mixed sex groups rarely, if ever, breed. Similarly, houbara bustards caught as adults remain sensitive to stress and in most cases fail to breed. Successful houbara bustard breeding projects use hand-reared birds, which are more suitable for intensive production efforts utilizing artificial insemination. White-bellied bustards are monogamous and adults are maintained in pairs. Kori bustards are managed in mixed-sex flocks, but can be managed as trios. Intra-specific aggression can occur between buff-crested pairs (♂-♀) and male koris (♂-♂) in the breeding season so care needs to be taken when there are changes to group structure. Adult male kori's may require physical and visual separation during the breeding season to prevent aggression and physical injuries (Boylan et al. 2001).

Table 2. Examples of breeding strategies.

Strategy	Species	Age	Social Grouping
Isolated for artificial insemination	Houbara	Adult	Singles
		Juvenile	Small groups (≤5)
Pairs	White-bellied	Adult	Pairs
		Juvenile	Small groups (≤5)
Heterosexual groups	Kori	Adult	Large group (~25)
		Adult	Trio or 2.3
		Juvenile	Large group (~15)

End-piece

Species such as houbara are in the early stages of 'domestication', as the objective is to produce large numbers of birds for managed hunting. Other species, e.g. great bustard and kori bustard, are maintained in captivity for conservation objectives. Productivity of all species in captivity is held back because of a poor understanding of nutritional requirements and high levels of breeder infertility and chick mortality. An expansion of the knowledge base for bustards is needed if advances in the husbandry and medical management of these birds are to be made.

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