

2013
North
American
Regional
Studbook
for the
Red-legged
seriema
(Cariama cristata)

ASSOCIATION
OF ZOOS &
AQUARIUMS



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2013

NORTH AMERICAN STUDBOOK
for the

RED-LEGGED

SERIEMA

(Cariama cristata)

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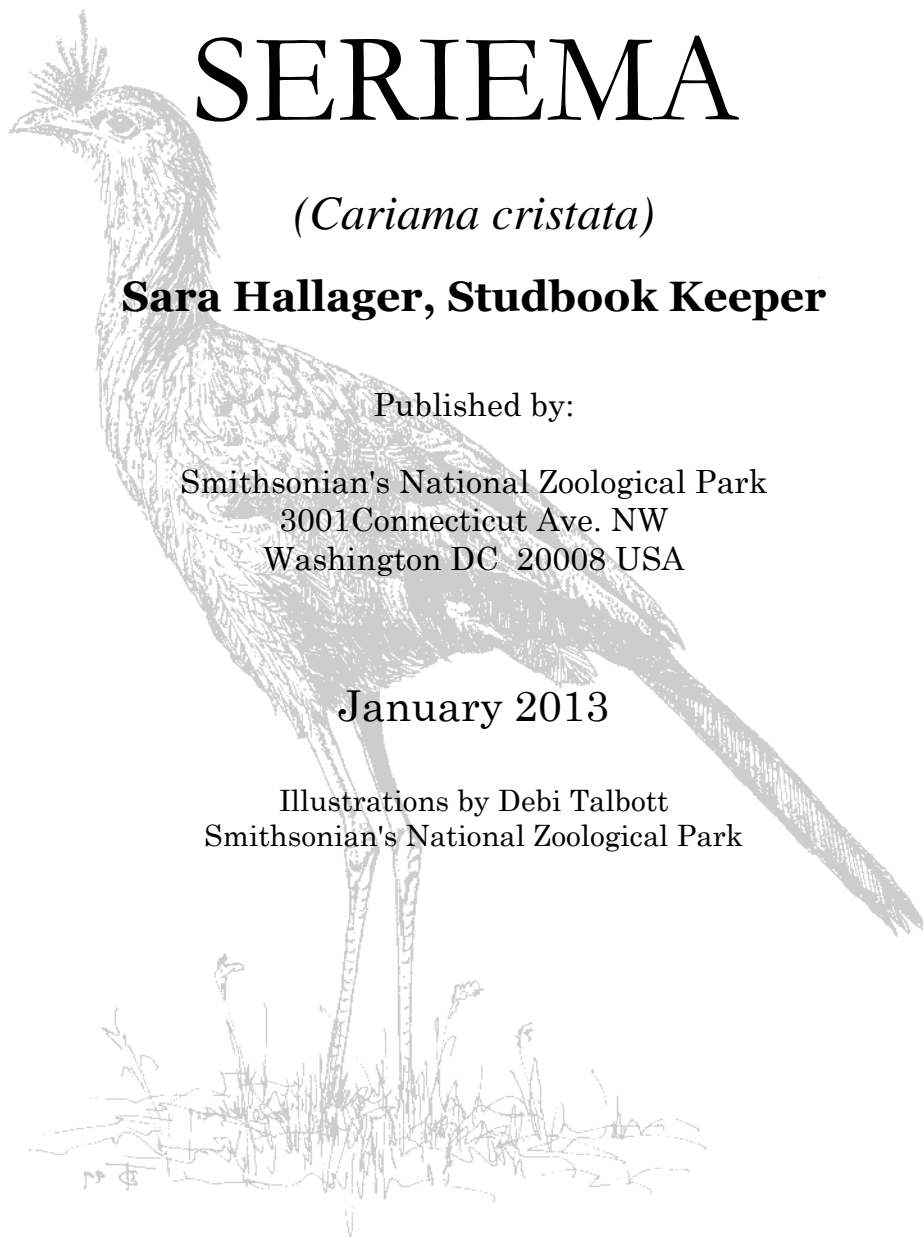


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INTRODUCTION

The formation of the North American Regional Studbook for the red-legged seriema was approved by WCMC (Wildlife Conservation and Management Committee) in April of 1997. This is the seventh edition of this studbook. Data is current through 31 December 2012. The Historical Studbook records 303 (102.94.107) birds maintained in zoos and private facilities in North America from 1891 through 31 December 2012. The Living Studbook contains 65 (32.24.9) birds in 33 institutions.

When the exact capture location of a wild caught bird is known, it is reported in the studbook. Birds reported only as 'wild caught' have their capture location listed as South America.

Hatch dates for wild caught birds are estimated to the year, unless institutions have reported 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 were captured for facilities and that a dealer did not hold the birds for an extended period of time. Thus, the hatch date for wild caught birds is generally one year before the bird was first reported in a facility, unless a facility has provided information to the contrary.

Some seriemas in the studbook are listed as 'lost to follow up' (luf). In the studbook columns, this will be indicated with the word 'unknown' in the last line of the removal date column. This means that the current status (i.e. alive or dead) in addition to the current location of the bird in question cannot be established.

Captive breeding was first reported in the United States in 1973. Therefore, birds with an unknown origin prior to this date were assumed wild caught.

STUDBOOK FORMAT

The red-legged seriema studbook uses the Single Population Animal Record Keeping System (SPARKS) program, version 1.6.4.

STUD #: Birds 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: Birds hatch date. At tilde mark '~' before the date indicates an approximate date. '?' indicates that the hatch date is unknown.

SIRE and DAM: Studbook numbers for the birds 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, 'Itf' (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.

NATURAL HISTORY

The seriemas comprise the Family Cariamidae in the Order Gruiformes. There are two species, both of which are found in South America- the slightly smaller black-legged seriema or Burmeister's seriema (*Chunga burmeisteri*) and the larger red-legged seriema or crested seriema (*Cariama cristata*). The placement of seriemas within the Order Gruiformes has been disputed over the years. They are generally placed closest to bustards, with which they share similar cestode parasites. Fossilized predecessors of modern seriemas have been found in North and South America and Europe. These ancestors stood anywhere from three to ten feet high. They had huge, sharp beaks making them significant predators. And, like seriemas today, they could run extremely fast. The two extant species of seriemas are both found in Central South America where they inhabit the grasslands and wooded savannas. Red-legged seriemas are generally found



in open habitats while black-legged seriemas prefer more wooded areas. The range of black-legged seriemas is considerably smaller than that of the red-legged seriema (del Hoyo 1996).

The red-legged seriema ranges in South America from central and eastern Brazil through eastern Bolivia and Paraguay to Uruguay and central Argentina. It can be found in lightly wooded areas, as well as open savanna like areas. The main concentration of red-legged seriemas is in the grassy savanna region of central Brazil. Here, termite mounds litter the landscape and provide seriemas with places from which to sing and scout for food. Further south, seriemas are found in more wooded areas, as well as grasslands. They can be found at elevations of 2000m. Seriemas have recently colonized man-made grassy areas, and other semi open areas of Brazil, which were formally covered by tropical forests. They are often found in areas where fire has recently passed through and where insects and small vertebrates may be easily found. Seriemas are territorial and usually sedentary in their movements, although movements in response to temperature changes have been reported.



In captivity, red-legged seriemas are more commonly kept than black-legged seriemas. The AZA Gruiformes TAG recommends zoos maintain only the red-legged seriema. Red-legged seriemas have been kept in captivity since the late 1800's. They are generally long-lived birds, with life spans of 25 years not uncommon in

Map based on information from the NatureServe [InfoNatura](http://www.natureserve.org) website. The data for these maps are provided by NatureServe in collaboration with Robert Ridgely, James Zook, The Nature Conservancy - Migratory Bird Program, Conservation International - CABS, World Wildlife Fund - US, and Environment Canada - WILDSPACE.

captive situations and some birds reaching 30 years (Hallager 2007).

Perhaps one of the most distinguishing characteristics of seriemas is their call. Often compared to that of a yelping puppy, it is a loud cry which can heard for several kilometers away. The call is usually performed in the early morning hours, but may be heard at any time of day. It is used to define territory between pairs. The call is frequently initiated by one member of the pair, followed by the other member responding with a sort of duet resulting. Redford and Peters (1986) have analyzed the song and have found it to be comprised of three parts, which are not always sung together. They found that at the onset of the song, the neck was held straight while at the end of the song, which was also the loudest part, the neck was held so that the back of the head nearly touched the back of the calling bird.

Management of both species is similar. Sexes are similar, with males being slightly larger than females. Red-legged seriemas weigh about 2.5-3 kg (5.5-6.6 lb), and stand about 90 cm (35.4 in) tall. Red-legged seriemas have a crest. Unique among South American birds, the crest is comprised of tufts of permanently raised slightly stiff feathers at the base of the bill, which can reach 10cm in length. Males have longer crest feathers but this alone should not be a confirmation of sex. DNA sexing is recommended. Seriemas have loose gray colored plumage, especially on the neck and underparts. The hooked beak is often compared to that of a raptor. Mostly ground dwelling birds, seriemas have three short, very sharp front toes, and a raised smaller hind toe. This anatomical arrangement prevents them from catching prey with their feet. Instead, the sharp claws on the feet are used to hold prey in place while the sharp bill tears the flesh. Although seriemas are omnivorous, they are highly carnivorous. Their diet includes insects, small rodents, lizards, frogs, birds, and occasionally snakes, although their reputation of consuming large numbers of snakes is exaggerated. Leaf material, seeds, fruits, and crops cultivated by humans such as corn, beans, and grains are also eaten. Small prey items are swallowed whole and head first. Larger animals are held between their sharp claws, and torn apart. Killing their prey may involve beating the animal on the ground, or throwing it against a hard surface such as a rock.

They are quick runners, generally preferring to run from danger than fly. They have been clocked running upwards of 70km/hour (43 mph) (del Hoyo 1996). When they do fly, it is generally only when they cannot out run their pursuer, or when they must reach an elevated perch.

Neither species of seriema is considered threatened. However, exact counts of both species have not been conducted, so their true status is not really known. Further complicating the matter is their far-reaching call, which may yield a false count of the actual numbers of birds in a particular area.

Central Brazil is the stronghold of the red-legged seriema. Here, the species favors the grassy, savanna areas dominated by termite mounds. These favored lookout perches provide the red-legged seriema with elevated roosts in which to call and advertise their territory. Farther south, the species is found in the grasslands of southern Brazil, Uruguay and Argentina. In

Argentina, numbers range from abundant to scarce. It is considered a vanishing species in Uruguay. In northeastern and southeastern Brazil, illegal traders of live animals occasionally offer red-legged seriemas for sale (del Hoyo 1996).

Threats to both species of seriema habitat are in the form of agricultural development and hunting, although red-legged seriemas seem to have adapted to this threat and in fact have colonized certain deforested areas in Brazil (del Hoyo 1996). Populations of both species should continue to be monitored given their precarious status in certain parts of their range.

HUSBANDRY

Capture and Restraint: Seriemas are easily caught using a large net. Care must be taken when extracting the bird from the net so that the handler is not pierced by the sharp talon of the bird's inner toe. Once in hand, the greatest threat to the handler is the razor-sharp nails, so handlers must immediately secure the feet. The bird can then be held much like a crane. Once the feet are secure, the handler should immediately pull the seriema's body against his/her own. A second person should hold the head although the bill of the seriema is not particularly dangerous. Seriemas do not use their bill as a weapon although they will hold it open in an attempt to appear more ferocious. Restrain the head by encircling the bird's upper neck with one hand without restricting the airway; do not cover the nares. Hood the bird if necessary to induce calmness. Another method is to hold the wings and body of the seriema with one arm and the legs with the other. Grasp the legs just above the hocks, and place one finger between the hocks to prevent the legs from abrading one another. Make sure the tarsi cannot contact the seriema's neck or the person holding the bird in order to prevent the bird from ripping its neck open. If the seriema's legs must be folded, gently force the tarsi around, but if the bird locks its hocks rigidly, do not force the legs to fold. Instead, maintain steady pressure on the tarsi until the bird allows you to fold the legs. When holding a seriema with folded legs, support the bird's weight with the arm holding its body. Do not keep a seriema's legs folded for more than 15 minutes. These precautions will help prevent slipped tendons, capture myopathy and in some cases leg fractures. When releasing a seriema, allow its legs to touch the ground before letting go of the body or wings.

Transport: Seriemas are best transported in medium sized commercial pet carriers. Crate requirements for seriemas can be found in the International Air Transport Association manual container requirement #17 – IATA 2010). Shipping recommendations can also be found at www.iata.org.

Enclosure: Pen dimensions should be longer than they are wide. A good recommended size is 7.5 m x 5 m x 2.5 m (24.5 ft x 16 ft x 8 ft) for a pair of birds (Collins 1998). Fowler (2001) recommends a space of 10 m² (107.64 ft²) per bird, and a minimum aviary height of 2 m (6.5 ft). In the wild, seriemas nest and roost 1-5 m (3-16 ft) off the ground (del Hoyo 1996), and so elevated perches should be provided for them to meet their desire to roost high. They like to

run and need long exhibits in which to exercise. Long runs are also important for chicks which need plenty of exercise to avoid developmental problems. A suggested boundary for enclosures is one-inch chain link mesh but other similar sized mesh will work as well. This size mesh reduces the chances of chicks getting out and large rodents getting in. Site barriers, such as thick shrubs give the birds a sense of security in pens of minimum size. Areas of full sun should be provided as seriemas are heavy sunbathers. Additionally, areas of shade should be available, especially in hotter climates.

Feral predators are dangerous for both adult and young seriemas. Foxes and/or raccoons can fatally wound adult birds. Thus, enclosures must be built to minimize predator access. Digging predators (e.g. dogs, foxes) can be excluded by burying the base of the boundary 0.3m (1 ft) in the ground. Surrounding the enclosure with electrical wire deters climbing predators (e.g. raccoons). In areas where large predators (e.g. coyote, bobcat, cougar) are common, birds may need to be housed indoors at night.

Housing requirements: Zoos in zones where temperatures fall below 0°C (32°F) must have winter holding facilities available for housing birds during inclement weather. Seriemas are susceptible to frost bite and must not be left outside when temperatures are below 0°C (32°F). They should be housed during periods of freezing rain or snow. Sheds should be heated to 10° - 15.5°C (50-60°F). Heat bulbs, if used, should be encased in protective wiring to prevent bulb breakage in case a bird makes contact with the bulb. Lights should be installed that can be turned on during the day and off at night. Skylights, which allow for natural light in the stalls, may be advantageous for birds that must be housed for extended periods. A small night-light turned on at night will provide some degree of light for the birds during the overnight hours. The floor of the shed can be dirt or sand which can be covered with bedding hay (straw). Perches should be provided in sheds so that birds can roost off the ground. Even zoos that do not experience extremely cold weather should have a shelter available. The shelter can be used for times when pen repairs are needed, for medical confinement, to minimize food loss from wild birds or when birds must be caught.

Mixed species exhibits: Seriemas can be exhibited with a wide variety of bird and mammal species. Seriemas are hunters though, and small fledglings of any avian species will be consumed if the opportunity presents itself. Birds including cinnamon teal *Anas cyanoptera*, ringed teal *Callonetta leucophrys*, Egyptian goose *Alopochen aegyptiacus*, black-necked swan *Cygnus melanocoryphus*, paradise shelduck *Tadorna variegata*, common shelduck *Tadorna tadorna*, Andean goose *Chloephaga melanoptera*, white ibis *Eudocimus albus*, kookaburra *Dacelo novaeguineae*, hyacinth macaw *Anodorhynchus hyacinthinus*, scarlet ibis *Eudocimus ruber*, boat billed heron *Cochlearius cochlearius*, king vulture *Sarcorhamphus papa*, grey-winged trumpeter *Psophia crepitans*, red-billed hornbill *Tockus erythrorhynchus*, tawny frogmouth *Podargus strigoides*, common peafowl *Pavo cristatus* as well as various species of guan *Penelope sp.*, dove *Columba sp.*, turaco *Tauraco sp.*, thrush *Garrulax sp.*, stork *Ciconia sp.*, crow *Corvus sp.*, conure *Aratinga sp.*, have all been exhibited with seriemas at zoos but caution should be used with any species exhibited with seriema because of their hunting nature. Mammals species such as collared peccary *Pecari tajacu*, Brazilian tapir *Tapirus terrestris*,

squirrel monkey *Saimiri ustus*, capybara *Hydrochaeris hydrochaeris*, guanaco *Lama guanicoe* and giant anteater *Myrmecophaga tridactyla* have all been successfully exhibited with seriemas.

Social organization: Seriemas are most often exhibited alone or in pairs. Groups of three or more birds are most likely parents and offspring. More than one pair of seriemas cannot be exhibited in the same enclosure as they are extremely territorial. Seriemas should not be introduced to new mates during the breeding season because males can be overly amorous in their efforts to breed causing undue stress upon a newly introduced female. Two males must never be exhibited together.

Water: Seriemas require only small areas of water from which to drink. They are not heavy drinkers but do drink on a daily basis. Heated water dispensers for northern zones are recommended. Seriemas do not bathe in water so pools are not needed in exhibits (unless for aesthetic reasons). If pools are present in enclosures, they should be shallow enough that a bird can walk through the water and the sides should gradually slope to the deepest portion. Pools deeper than 0.6m (24in) are not recommended. Pools should be lowered once chicks leave the nest to prevent accidental drowning.

Diet: From the limited data available, it appears that although these birds are omnivorous, their dietary habits may be primarily insectivorous/carnivorous, as hypothesized by Redford and Peters (1986). The gastrointestinal tract of the seriema was noted to have a large gizzard, but no visible crop (Boyle 1917). This type of gastrointestinal tract is seen with insectivores, herbivores and omnivores. With this in mind, seriemas may be best adapted for an omnivorous/insectivorous feeding strategy. Diets for captive seriemas are varied, but most zoos feed a combination of small and large mice, mealworms, crickets, canned dog or cat food, avian pellets and either horse meat or beef. Fruit may be occasionally consumed. Food should be offered twice daily and on the ground in a pan. When chicks are present, hardboiled egg and pinkies should be given and all amounts of food should be increased. Food should be offered a minimum of three times per day when chicks are present.

Breeding: In captivity, breeding can occur at any time of the year especially in southern zones. In colder climates of the US, breeding typically commences in early March. Males as young as eight months have bred (Collins 1998); females have bred at one year (Hallager 2004). The male initiates the breeding season by showing off his flight feathers, stretching them to one side. The display is also accompanied by strutting in front of the female, with head pointed down and crest raised. The male often presents food to the female. Both birds call, thereby strengthening the bond between them as well as defining the territory of the pair (Redford and Peters 1986). Copulation occurs on the ground (de Almeida 1994).

Once a pair shows signs of nesting (carrying sticks), keepers should provide extra nesting material such as twigs, dried grasses and small branches. Nest building is done by both sexes, although the male does more of the construction. Nests are usually in a tree 1-5 m (3-16 ft) off the ground and construction generally takes one month. Pairs will use the same nest site from

year to year. The nest is assembled of twigs and branches, and is lined with mud and leaves. It is usually placed so that the birds can jump up to it in one or two leaps. Commonly, two (or three) white, slightly spotted eggs are laid (57-71 x 46-50 mm in *Cariama cristata* and 56-61 x 42-46 mm in *Chunga burmeisteri* (del Hoyo 1996)). Incubation is carried out by both sexes. Captive pairs sometimes eject the first clutch of the season and some pairs are notorious for repeatedly ejecting eggs. It may often take several years for the pair to stop this behavior or even re-pairing of birds to correct this problem. Following a 27-28 day incubation period, the chicks hatch.

Chick development: Chicks are nidicolous and helpless when they hatch, but only for a short period as their growth rate is very fast. At birth, the eyes are open but chicks cannot stand. Chicks are born with brown colored down and weigh about 40-60g. At one week, pin feathers begin to emerge and chicks attempt to stand. Young birds may utter the species characteristic vocalization at this age. As chicks approach 10 days, they are able to stand and by 14 days, may even leave the nest, although most chicks remain in the nest for 3-4 weeks. Chicks are brooded by their parents for the first three weeks of life. After three weeks, the juvenile birds roost in trees at night. Because they are unable to fly at this age, they must have perching positioned so that they can reach high roost sites at night. Fledging occurs at about 30 days. At three months, the parents will start to wean the chick by encouraging them to pick up food for themselves. By three and half months, chicks are nearly full grown although their plumage is still in juvenile form. At four to five months of age, chicks can be moved to their own enclosure or sent to other zoos.

Artificial Incubation: Eggs are best left under the parents, but this is not always possible as some pairs routinely eject eggs from the nest. Should artificial incubation be necessary, eggs should be placed in the incubator horizontally. The automatic turners should be set to turn every 2 hours with an incubation temperature of 37.2°C (99.0°F) and a relative humidity of 55-65%. The humidity should be increased to 75% once the chick enters internal pip. Eggs hatch after 26-27 days of incubation.

Parent-rearing: If the egg has been artificially incubated, pull the dummy and replace the real egg at external pip. Leave the chick and parents alone for the first 24 hours to allow bonding to occur. Seriema parents are normally very attentive, but sometimes chicks need some extra help if they are not growing at the proper rate or they appear weak. Younger siblings can get pushed out or dominated by older chicks and may require supplemental feedings from keepers. The parents usually accept these extra feedings but keepers should be mindful of the sharp talons of adult seriemas when providing supplemental feedings to chicks. Occasionally if two or more chicks are hatched, one chick may die or be killed by the parent (likely the weakest chick) and fed to the remaining chick. Seriemas in the wild are reported to sometimes only raise one chick (del Hoyo 1996).

Hand rearing: Information on hand rearing is available from the studbook keeper.

HISTORY OF THE CAPTIVE POPULATION

Red-legged seriemas were first reported in North American zoological collections in 1891 when the National Zoological Park acquired its first specimen. The Philadelphia Zoo received a bird approximately one year later. From 1903 through 1939, 14 wild caught red-legged seriemas entered the United States. Many lived ten or more years. Two birds imported into the San Diego Zoo in 1935 lived 20 years.

After 1939, no wild importation's occurred until 1966. When the Oklahoma Zoo imported a pair in 1966, there was only one red-legged seriema alive in a zoo in the United States. Wild importation's continued through the 1960's, with 11 additional birds entering the country. Many of these birds lived 15 years or more.

Another 11 birds were imported during the 1970's. In the early 1980's six birds arrived, marking the final importation of wild caught red-legged seriemas into the United States. Due to the breeding success at zoos and private facilities, no wild caught red-legged seriemas have been imported since 1981.

The first hatching of a red-legged seriema in a US zoo occurred at the San Antonio Zoo in 1973. In 1978, Ollson's Rare Bird Farm (Glendale) became the second facility to breed the species. During the 1970's and 1980's, Glendale was the major breeder of captive bred red-legged seriemas in the US. In 1980, the Tulsa Zoo became the first facility to achieve second generation breeding in the species. Breeding quickly escalated in the 1980's at several zoos and private facilities and continued to remain strong through the 1990's, although has declined significantly in the past few years. Third generation breeding was reached at Woodlands Park Zoo in 1992.

Today, there are no wild caught birds remaining and the captive population of red-legged seriemas in North America is 100% captive born.

AGE STRUCTURE OF LIVING BIRDS

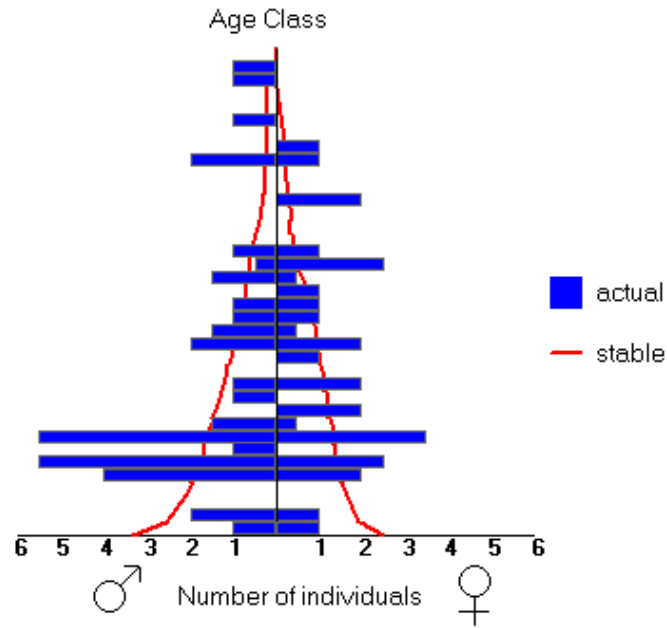


Photo by Josh Carballo, Tampa's Lowry Park Zoo

FECUNDITY & MORTALITY REPORT

=====
 Taxon Name: CARIAMA CRISTATA
 =====

Age	Fecundity [Mx]...				Mortality [Qx]...				Survival [Lx]...	
	Male	N	Female	N	Male	N	Female	N	Male	Female
0- 1	0.00	81.8	0.00	80.2	0.31	111.1	0.31	109.4	1.000	1.000
1- 2	0.04	76.8	0.10	74.1	0.08	81.1	0.07	78.1	0.690	0.690
2- 3	0.11	83.6	0.11	76.2	0.06	86.9	0.05	79.3	0.635	0.642
3- 4	0.09	78.6	0.11	73.6	0.07	81.5	0.08	76.6	0.597	0.610
4- 5	0.15	69.9	0.20	67.5	0.04	70.9	0.05	69.7	0.555	0.561
5- 6	0.14	58.8	0.15	60.3	0.07	60.9	0.03	61.8	0.533	0.533
6- 7	0.08	54.1	0.09	58.3	0.00	54.1	0.03	58.8	0.495	0.517
7- 8	0.15	49.2	0.07	53.5	0.02	49.6	0.02	53.9	0.495	0.501
8- 9	0.19	44.8	0.08	53.2	0.00	44.8	0.00	53.2	0.486	0.491
9-10	0.14	40.3	0.06	50.0	0.11	43.6	0.08	52.5	0.486	0.491
10-11	0.14	37.8	0.06	46.4	0.03	38.0	0.00	46.4	0.432	0.452
11-12	0.24	34.5	0.08	44.1	0.06	36.2	0.02	44.3	0.419	0.452
12-13	0.11	33.2	0.18	41.5	0.03	34.0	0.05	42.0	0.394	0.443
13-14	0.22	32.2	0.17	38.1	0.03	32.6	0.05	39.0	0.382	0.421
14-15	0.14	28.5	0.08	34.3	0.08	30.6	0.01	34.5	0.371	0.400
15-16	0.04	26.0	0.23	31.7	0.00	26.0	0.03	32.6	0.341	0.396
16-17	0.17	24.3	0.19	30.0	0.04	25.1	0.03	30.6	0.341	0.384
17-18	0.02	21.9	0.13	27.5	0.13	23.0	0.04	28.5	0.327	0.372
18-19	0.08	19.7	0.12	26.5	0.00	19.7	0.11	27.7	0.285	0.358
19-20	0.06	17.4	0.25	19.1	0.08	18.0	0.24	23.0	0.285	0.318
20-21	0.17	14.9	0.11	14.8	0.07	15.1	0.13	15.1	0.262	0.242
21-22	0.15	13.5	0.10	11.0	0.00	13.5	0.09	11.5	0.244	0.210
22-23	0.08	13.4	0.00	10.2	0.04	13.5	0.14	10.5	0.244	0.191
23-24	0.34	10.6	0.06	8.5	0.27	12.8	0.06	9.0	0.234	0.165
24-25	0.36	8.5	0.27	7.7	0.00	8.5	0.00	7.7	0.171	0.155
25-26	0.27	7.6	0.08	6.5	0.25	8.1	0.15	6.5	0.171	0.155
26-27	0.09	5.5	0.00	4.9	0.00	5.5	0.18	5.5	0.128	0.132
27-28	0.29	5.2	0.00	4.5	0.00	5.2	0.00	4.5	0.128	0.108
28-29	0.00	3.9	0.00	3.5	0.00	3.9	0.00	3.5	0.128	0.108
29-30	0.00	3.2	0.00	2.2	0.14	3.5	0.20	2.5	0.128	0.108
30-31	0.00	2.7	0.00	2.0	0.00	2.7	0.00	2.0	0.110	0.086
31-32	0.00	2.0	0.00	1.0	0.00	2.0	0.50	2.0	0.110	0.086
32-33	0.00	2.0	0.00	1.0	0.00	2.0	0.00	1.0	0.110	0.043
33-34	0.00	1.5	0.00	0.2	0.00	1.5	1.00	1.0	0.110	0.043
34-35	0.00	0.9	0.00	0.0	0.00	0.9	0.00	0.0	0.110	0.000
35-36	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.110	0.000
36-37	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.110	0.000

Gestation Period: 27 days

T = 12.182 T = 10.772 30 day mortality: 22%

Ro = 1.293 Ro = 1.169 (48 deaths out of 221 arriving
 lambda=1.02 lambda=1.01 within 30 days of birth date)
 r = 0.021 r = 0.014

224 birth events to known age parents tabulated for Mx...
 (Average of 221 births to female parents and 227 births to male parents.)
 plus...
 5 births to UNK or MULT sires...
 11 births to UNK or MULT dams...

173 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

as of 31 Dec	# Insts	Observed Lambda		Annual	Geometric Mean
		Specimen	Counts		
-----	-----	-----	-----	-----	-----
2012	33	31.24.10	(65)	1.07	
2011	33	29.24.8	(61)	0.94	1.00 (last 2 yrs)
2010	34	30.26.9	(65)	0.97	0.99 (last 3 yrs)
2009	33	30.28.9	(67)	1.02	1.00 (last 4 yrs)
2008	27	30.29.7	(66)	1.08	1.01 (last 5 yrs)
2007	27	29.27.5	(61)	1.22	1.04 (last 6 yrs)
2006	27	22.23.5	(50)	1.00	1.04 (last 7 yrs)
2005	27	23.23.4	(50)	1.09	1.04 (last 8 yrs)
2004	25	20.22.4	(46)	1.00	1.04 (last 9 yrs)
2003	23	19.23.4	(46)	0.98	1.03 (last 10 yrs)
2002	24	20.23.4	(47)	1.04	1.03 (last 11 yrs)
2001	24	20.21.4	(45)	0.98	1.03 (last 12 yrs)
2000	23	19.23.4	(46)	0.85	1.01 (last 13 yrs)
1999	24	22.26.6	(54)	0.98	1.01 (last 14 yrs)
1998	22	24.27.4	(55)	1.04	1.01 (last 15 yrs)
1997	24	24.26.3	(53)	0.87	1.00 (last 16 yrs)
1996	24	28.29.4	(61)	1.07	1.01 (last 17 yrs)
1995	23	24.30.3	(57)	0.98	1.01 (last 18 yrs)
1994	26	24.32.2	(58)	1.05	1.01 (last 19 yrs)
1993	27	23.29.3	(55)	1.04	1.01 (last 20 yrs)
1992	26	22.30.1	(53)	0.96	1.01 (last 21 yrs)
1991	29	25.29.1	(55)	1.10	1.01 (last 22 yrs)
1990	28	24.25.1	(50)	0.91	1.01 (last 23 yrs)
1989	30	25.28.2	(55)	0.90	1.00 (last 24 yrs)
1988	27	27.33.1	(61)	1.11	1.01 (last 25 yrs)
1987	30	25.28.2	(55)	0.93	1.00 (last 26 yrs)
1986	25	28.28.3	(59)	1.13	1.01 (last 27 yrs)
1985	20	28.24.0	(52)	1.04	1.01 (last 28 yrs)
1984	19	27.23.0	(50)	1.06	1.01 (last 29 yrs)
1983	18	26.19.2	(47)	1.04	1.01 (last 30 yrs)
1982	15	23.19.3	(45)	1.25	1.02 (last 31 yrs)
1981	14	19.17.0	(36)	1.03	1.02 (last 32 yrs)
1980	13	17.18.0	(35)	1.30	1.03 (last 33 yrs)
1979	11	13.14.0	(27)	1.17	1.03 (last 34 yrs)
1978	9	10.13.0	(23)	1.15	1.03 (last 35 yrs)
1977	8	10.10.0	(20)	1.05	1.03 (last 36 yrs)
1976	9	9.10.0	(19)	1.00	1.03 (last 37 yrs)
1975	9	9.10.0	(19)	1.00	1.03 (last 38 yrs)
1974	10	9.10.0	(19)	1.12	1.03 (last 39 yrs)
1972	10	8.8.1	(17)	1.06	1.03 (last 41 yrs)
1971	9	8.8.0	(16)	1.23	1.04 (last 42 yrs)
1970	7	7.6.0	(13)	0.93	1.04 (last 43 yrs)
1969	7	8.6.0	(14)	1.08	1.04 (last 44 yrs)
1968	6	7.6.0	(13)	1.44	1.04 (last 45 yrs)
1967	5	5.4.0	(9)	1.13	1.05 (last 46 yrs)
1966	5	4.3.1	(8)	2.67	1.07 (last 47 yrs)
1965	2	1.1.1	(3)	3.00	1.09 (last 48 yrs)
1964	1	0.0.1	(1)	1.00	1.09 (last 49 yrs)
1963	1	0.0.1	(1)	1.00	1.09 (last 50 yrs)
1962	1	0.0.1	(1)	1.00	1.09 (last 51 yrs)
1961	1	0.0.1	(1)	1.00	1.08 (last 52 yrs)
1960	1	0.0.1	(1)	1.00	1.08 (last 53 yrs)
1959	1	0.0.1	(1)	1.00	1.08 (last 54 yrs)
1958	1	0.0.1	(1)	1.00	1.08 (last 55 yrs)
1957	1	0.0.1	(1)	0.33	1.06 (last 56 yrs)
1956	2	0.0.3	(3)	0.75	1.05 (last 57 yrs)
1955	2	0.0.4	(4)	1.00	1.05 (last 58 yrs)
1954	2	0.0.4	(4)	1.00	1.05 (last 59 yrs)
1953	2	0.0.4	(4)	1.00	1.05 (last 60 yrs)

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1952	2	0.0.4	(4)	1.00	1.05	(last 61 yrs)
1951	2	0.0.4	(4)	1.00	1.05	(last 62 yrs)
1950	2	0.0.4	(4)	1.00	1.05	(last 63 yrs)
1949	2	0.0.4	(4)	1.00	1.04	(last 64 yrs)
1948	2	0.0.4	(4)	1.00	1.04	(last 65 yrs)
1947	2	0.0.4	(4)	1.00	1.04	(last 66 yrs)
1946	2	0.0.4	(4)	1.00	1.04	(last 67 yrs)
1945	2	0.0.4	(4)	1.00	1.04	(last 68 yrs)
1944	2	0.0.4	(4)	1.00	1.04	(last 69 yrs)
1943	2	0.0.4	(4)	1.00	1.04	(last 70 yrs)
1942	2	0.0.4	(4)	1.00	1.04	(last 71 yrs)
1941	2	0.0.4	(4)	1.00	1.04	(last 72 yrs)
1940	2	0.0.4	(4)	0.80	1.04	(last 73 yrs)
1939	3	0.1.4	(5)	1.00	1.04	(last 74 yrs)
1938	3	0.1.4	(5)	1.67	1.04	(last 75 yrs)
1937	2	0.1.2	(3)	1.00	1.04	(last 76 yrs)
1936	2	0.1.2	(3)	0.75	1.04	(last 77 yrs)
1935	2	1.1.2	(4)	1.00	1.04	(last 78 yrs)
1934	3	0.1.3	(4)	1.33	1.04	(last 79 yrs)
1933	2	0.2.1	(3)	1.00	1.04	(last 80 yrs)
1932	2	0.2.1	(3)	1.00	1.04	(last 81 yrs)
1931	2	0.2.1	(3)	1.00	1.04	(last 82 yrs)
1930	2	0.2.1	(3)	1.50	1.04	(last 83 yrs)
1929	1	0.2.0	(2)	1.00	1.04	(last 84 yrs)
1928	1	0.2.0	(2)	1.00	1.04	(last 85 yrs)
1927	1	0.2.0	(2)	1.00	1.04	(last 86 yrs)
1926	1	0.2.0	(2)	0.00	---	(last 87 yrs)
1925	0	0.0.0	(0)	0.00	---	(last 88 yrs)
1924	0	0.0.0	(0)	0.00	---	(last 89 yrs)
1923	0	0.0.0	(0)	0.00	---	(last 90 yrs)
1922	0	0.0.0	(0)	0.00	---	(last 91 yrs)
1921	0	0.0.0	(0)	0.00	0.82	(last 92 yrs)
1920	1	0.0.1	(1)	1.00	0.82	(last 93 yrs)
1919	1	0.0.1	(1)	1.00	0.82	(last 94 yrs)
1918	1	0.0.1	(1)	1.00	0.82	(last 95 yrs)
1917	1	0.0.1	(1)	1.00	0.83	(last 96 yrs)
1916	1	0.0.1	(1)	1.00	0.83	(last 97 yrs)
1915	1	0.0.1	(1)	1.00	0.83	(last 98 yrs)
1914	1	0.0.1	(1)	1.00	0.83	(last 99 yrs)
1913	1	0.0.1	(1)	1.00	0.83	(last 100 yrs)
1912	1	0.0.1	(1)	0.50	0.83	(last 101 yrs)
1911	2	0.1.1	(2)	2.00	0.83	(last 102 yrs)
1910	1	0.0.1	(1)	1.00	0.84	(last 103 yrs)
1909	1	0.0.1	(1)	0.50	0.83	(last 104 yrs)
1908	2	0.0.2	(2)	2.00	0.84	(last 105 yrs)
1907	1	0.0.1	(1)	0.00	---	(last 106 yrs)
1906	0	0.0.0	(0)	0.00	---	(last 107 yrs)
1905	0	0.0.0	(0)	0.00	---	(last 108 yrs)
1904	0	0.0.0	(0)	0.00	0.84	(last 109 yrs)
1903	1	0.0.1	(1)	0.00	---	(last 110 yrs)
1902	0	0.0.0	(0)	0.00	---	(last 111 yrs)
1901	0	0.0.0	(0)	0.00	---	(last 112 yrs)
1900	0	0.0.0	(0)	0.00	---	(last 113 yrs)
1899	0	0.0.0	(0)	0.00	---	(last 114 yrs)
1898	0	0.0.0	(0)	0.00	---	(last 115 yrs)
1897	0	0.0.0	(0)	0.00	0.85	(last 116 yrs)
1896	1	0.0.1	(1)	1.00	0.85	(last 117 yrs)
1895	1	0.0.1	(1)	0.50	0.85	(last 118 yrs)
1894	2	0.0.2	(2)	1.00	0.85	(last 119 yrs)
1893	2	0.0.2	(2)	1.00	0.85	(last 120 yrs)
1892	2	0.0.2	(2)	2.00	0.86	(last 121 yrs)
1891	1	0.0.1	(1)	0.06	0.84	(last 122 yrs)

Note: Lambda values include Imports and Exports...

REPRODUCTIVE PARAMATERS

Female data

191 at NZP-WASH had chick 199 (d<30 days) at age 1Y,0M,2D
 226 at METROZOO had chick 240 at age 1Y,2M,25D
 242 at WILD WRLD had chick 259 at age 1Y,5M,15D
 60 at DALLAS had chick 64 at age ~1Y,8M,20D
 278 at WORLDBIRD had chick 282 at age ~1Y
 81 at DALLAS had chick 99 at age 1Y,9M,1D
 171 at CROFT L had chick 103 at age ~2Y,3M
 90 at CALDWELL had chick 112 at age 2Y,3M,16D
 281 at WORLDBIRD had chick 286 at age ~2Y
 47 at TULSA had chick 61 at age ~2Y,4M,22D

Oldest dams at first reproduction:

196 at GILLIS had chick 195 at age ~18Y
 120 at COLUMBIA had chick 246 at age 15Y,9M,21D
 31 at BATONROUG had chick 86 at age ~15Y
 156 at CRAWFRD W had chick 283 (d<30 days) at age 14Y,10M,21D
 22 at GLENDALE had chick 42 at age ~12Y
 48 at LAKEBUENA had chick 148 at age 12Y,10M,28D
 164 at KNOXVILLE had chick 256 at age 12Y,0M,30D
 69 at LANNOM had chick 211 at age 11Y,5M,5D
 207 at ORLANDO had chick 301 (stillborn/prem) at age 11Y,0M,16D
 178 at FRESNO had chick 255 at age 10Y,10M,27D

Oldest dams to have reproduced:

81 at DALLAS had chick 298 at age 25Y,2M,1D
 81 at DALLAS had chick 292 (d<30 days) at age 24Y,3M,8D
 81 at DALLAS had chick 291 (d<30 days) at age 24Y,3M,6D
 88 at SEDGWICK had chick 289 at age 23Y,11M,29D
 88 at SEDGWICK had chick 288 at age 23Y,11M,28D
 81 at DALLAS had chick 290 (d<30 days) at age 23Y,10M,12D
 81 at DALLAS had chick 263 (d<30 days) at age 21Y,10M,2D
 81 at DALLAS had chick 262 at age 21Y,10M,1D
 81 at DALLAS had chick 254 (d<30 days) at age 20Y,10M,13D
 81 at DALLAS had chick 252 at age 20Y,10M,12D

	Median	Average	N
Age at first reproduction:	5Y,2M,5D	6Y,8M,19D	35
During all reproduction:	~8Y,3M,29D	9Y,10M,24D	206
Age at last reproduction:	~11Y,5M,8D	9Y,10M,24D	35

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Shortest interclutch intervals

Dam	Interval	Offspring
45	18 days between	65 & 67
31	20 days between	106 & 107
57	22 days between	122 & 125
31	28 days between	86 & 89
31	30 days between	93 & 95
57	32 days between	133 & 135
31	37 days between	105 & 106
171	37 days between	103 & 186
178	43 days between	267 & 269
242	43 days between	260 & 261
22	46 days between	49 & 50
191	51 days between	214 & 216

Hatch seasonality
(clutches to known dams)

January:	6	4%
February:	2	1%
March:	4	3%
April:	27	18%
May:	31	20%
June:	35	23%
July:	18	12%
August:	12	8%
September:	8	5%
October:	8	5%
November:	1	1%
December:	1	1%



Photo credit Jason Collier, SeaWorld Orlando

Clutch size	N	
1	94	59%
2	55	35%
3	10	6%

159 total clutches, mean size is 1.5 eggs

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Viability:

Rearing:	Lived		Died		Died		DeadInShell &	
	> 1 year		< 1 year		< 30 days		Dead Embryo	
Parent (86)	54	63%	6	7%	26	30%	0	0%
Hand (37)	28	76%	6	16%	3	8%	0	0%
None (2)	0	0%	0	0%	1	50%	1	50%
Unknown (109)	82	75%	11	10%	16	15%	0	0%
TOTALS	164	70%	23	10%	46	20%	1	0%

First hatches to dams at an average age of ~6Y, 8M, 13D
 69.8% lived >1 year 7.0% died <1 year 23.3% died <30 days
 N = 30 N = 3 N = 10

Subsequent hatches to dams at an average age of ~10Y, 4M, 11D
 70.5% lived >1 year 10.5% died <1 year 18.9% died <30 days
 N = 134 N = 20 N = 36

REPRODUCTIVE PARAMATERS

Male data

Youngest sires at first reproduction:

162 at CL SPR AV had chick 174 at age 10M,22D
 246 at FRESNO had chick 255 at age 1Y,0M,24D
 59 at DALLAS had chick 64 at age ~1Y,7M,24D
 279 at WORLDBIRD had chick 282 at age ~1Y
 216 at ALEXANDRI had chick 234 at age 1Y,9M,7D
 55 at SANDIEGOZ had chick 65 at age 2Y,0M,2D
 286 at had chick 301 at age 2Y,2M,1D
 92 at CALDWELL had chick 112 at age 2Y,2M,19D
 280 at WORLDBIRD had chick 286 at age ~2Y
 46 at TULSA had chick 61 at age ~2Y,3M,25D

Oldest sires at first reproduction:

194 at GILLIS had chick 195 at age ~23Y
 86 at DALLAS had chick 243 at age 18Y,6M,21D
 155 at CRAWFRD W had chick 283 at age 14Y,9M,25D
 193 at GILLIS had chick 171 at age ~13Y
 21 at GLENDALE had chick 42 at age ~12Y
 63 at BATONROUG had chick 170 at age 12Y,1M,15D
 71 at LANNOM had chick 211 at age 11Y,1M,24D
 43 at SANDIEGOZ had chick 111 at age ~10Y
 174 at COLUMBIA had chick 246 at age 9Y,11M,21D
 64 at LAKEBUENA had chick 148 at age 8Y,10M,14D

Oldest sires to have reproduced:

92 at LOWRY had chick 306 at age 26Y,11M,30D
 92 at LOWRY had chick 305 at age 26Y,11M,29D
 64 at WILD WRLD had chick 297 at age 26Y,11M,7D
 64 at WILD WRLD had chick 296 at age 26Y,9M,16D
 64 at WILD WRLD had chick 284 at age 25Y,9M,25D
 64 at WILD WRLD had chick 300 at age 25Y,9M,20D
 64 at WILD WRLD had chick 285 at age 25Y,9M,19D
 86 at DALLAS had chick 298 at age 24Y,11M,10D
 64 at WILD WRLD had chick 275 at age 24Y,9M,9D
 64 at WILD WRLD had chick 274 at age 24Y,9M,8D

	Median	Average	N
Age at first reproduction:	4Y,5M,21D	6Y,6M,27D	34
During all reproduction:	8Y,10M,14D	10Y,5M,5D	210
Age at last reproduction:	10Y,9M,16D	11Y,8M,20D	34

AGE REPORT

Ages at death for animals surviving to at least 30 days	25th %tile	Median	75th %tile	Maximum	N
males:	2Y, 5M, 26D	5Y, 10M, 26D	13Y, 10M, 28D	~25Y	49
females:	3Y, 4M, 17D	10Y, 10M, 0D	18Y, 11M, 21D	~33Y, 1M, 23D	50
unknown sex:	3M, 21D	1Y, 3M, 10D	5Y, 0M, 27D	~29Y	34

Oldest males:

27	Wild hatched	Died at LAKEBUENA/081102 at age of ~25Y In captivity for 24Y, 0M, 0D	
24	Wild hatched	Died at TORONTO/16855 at age of ~25Y In captivity for 24Y, 2M, 19D	
41	Wild hatched	Died at COLUMBIA/SJ1167 at age of ~23Y In captivity for ~21Y, 2M	
30	Wild hatched	Died at EVANSVILLE/288104 at age of ~23Y In captivity for ~23Y	
95	Captive hatched	Died at KNOXVILLE/101 at age of 23Y, 1M, 27D	
43	Wild hatched	Died at ORNATUS/281491 at age of ~20Y In captivity for ~17Y	
25	Wild hatched	Died at SAN ANTON/680072 at age of ~19Y In captivity for 17Y, 7M, 16D	
36	Wild hatched	Died at TOLEDO/711508 at age of ~17Y In captivity for ~16Y	
63	Captive hatched	Died at DALLAS/938556 at age of 17Y, 10M, 29D	
21	Wild hatched	Died at GLENDALE/_____ at age of ~17Y In captivity for ~16Y	

Oldest females:

49	Captive hatched	Died at SAN ANTON/791240 at age of ~33Y, 1M, 23D	
26	Wild hatched	Died at GILLIS/_____ at age of ~31Y In captivity for 28Y, 8M, 24D	
47	Captive hatched	Died at TULSA/3288 at age of ~26Y, 4M, 16D	
28	Wild hatched	Died at LAKEBUENA/081103 at age of ~25Y In captivity for 24Y, 0M, 0D	
23	Wild hatched	Died at TORONTO/16856 at age of ~22Y In captivity for 21Y, 6M, 23D	
51	Captive hatched	Died at CL SPR AV/_____ at age of ~21Y, 6M, 10D	
29	Wild hatched	Died at TRACY AV/850515 at age of ~20Y In captivity for ~20Y	
48	Captive hatched	Died at LAKEBUENA/081101 at age of 20Y, 7M, 27D	
112	Captive hatched	Died at KANSASCTY/202783 at age of 19Y, 9M, 4D	
31	Wild hatched	Died at BATONROUG/89 at age of ~19Y In captivity for ~17Y	

Oldest unknown sex:

16	Wild hatched	Died at NZP-WASH/16886 at age of ~29Y In captivity for 27Y, 11M, 16D	
12	Wild hatched	Died at SANDIEGOZ/413627 at age of ~23Y In captivity for ~23Y	
11	Wild hatched	Died at SANDIEGOZ/413626 at age of ~22Y In captivity for ~22Y	
15	Wild hatched	Died at NZP-WASH/_____ at age of ~19Y In captivity for 17Y, 6M, 6D	
5	Wild hatched	Died at NZP-WASH/_____ at age of ~14Y In captivity for 13Y, 4M, 1D	

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1	Wild hatched	Died at NZP-WASH/_____ at age of ~7Y In captivity for 6Y,3M,12D
108	Captive hatched	Died at GULF BREZ/378 at age of 7Y,3M,22D
10	Wild hatched	Died at NZP-WASH/_____ at age of ~5Y In captivity for 3Y,11M,15D
181	Captive hatched	Died at WORLDBIRD/990020 at age of 5Y,2M,21D
2	Wild hatched	Died at PHILADELPH/20547 at age of ~4Y In captivity for 3Y,6M,23D

Note that median ages are for dead animals only and are NOT average lifespans.

Ages for animals surviving to present

	25th %tile	Median	75th %tile	Maximum	N
males:	5Y,2M,22D	7Y,4M,15D	16Y,6M,4D	~34Y,10M,25D	31
females:	6Y,11M,30D	13Y,6M,8D	19Y,6M,12D	28Y,6M,24D	24
unknown sex:	2Y,9M,24D	6Y,7M,4D	14Y,1M,16D	19Y,6M,9D	11

Oldest living males:

46	Captive hatched	At TULSA/3287 at age of ~34Y,10M,25D
52	Captive hatched	At SAN ANTON/791643 at age of 33Y,6M,13D
64	Captive hatched	At WILD WRLD/6195 at age of 30Y,7M,22D
86	Captive hatched	At CENTRALPK/C11372 at age of 28Y,4M,30D
92	Captive hatched	At LOWRY/205356 at age of 27Y,8M,17D
155	Captive hatched	At CRAWFRD W/_____ at age of 20Y,6M,18D
176	Captive hatched	At NZP-WASH/213705 at age of 18Y,8M,4D
186	Captive hatched	At LOSANGELE/991063 at age of 16Y,6M,24D
189	Captive hatched	At WORLDBIRD/990021 at age of 16Y,5M,28D
192	Captive hatched	At SEDGWICK/8965 at age of 14Y,11M,3D

Oldest living females:

81	Captive hatched	At CENTRALPK/C11373 at age of 28Y,6M,24D
88	Captive hatched	At SEDGWICK/10408 at age of 28Y,4M,28D
116	Captive hatched	At RIO GRAND/B21734 at age of 24Y,8M,6D
120	Captive hatched	At CALDWELL/106745 at age of 24Y,6M,13D
156	Captive hatched	At CRAWFRD W/_____ at age of 20Y,6M,18D
157	Captive hatched	At DENVER/990191 at age of 20Y,5M,20D
164	Captive hatched	At KNOXVILLE/2656 at age of 19Y,6M,12D
182	Captive hatched	At LOWRY/205357 at age of 17Y,6M,13D
185	Captive hatched	At TORONTO/39385 at age of 16Y,7M,18D
191	Captive hatched	At SCOT NECK/_____ at age of 15Y,7M,2D

Oldest living unknown sex:

166	Captive hatched	At CINCINNAT/293130 at age of 19Y,6M,9D
167	Captive hatched	At CRAWFRD W/_____ at age of 19Y,3M,27D
200	Captive hatched	At CRAWFRD W/_____ at age of 14Y,6M,4D
208	Captive hatched	At CL SPR AV/_____ at age of ~13Y,11M
250	Captive hatched	At SCOT NECK/_____ at age of 8Y,4M,8D
265	Captive hatched	At COAL VAL/_____ at age of 6Y,7M,4D
293	Captive hatched	At LOWRY/205899 at age of 4Y,8M,12D
296	Captive hatched	At WILD WRLD/8860 at age of 3Y,8M,14D
297	Captive hatched	At WILD WRLD/8902 at age of 3Y,6M,24D
305	Captive hatched	At JNGLARY F/UNK at age of 6M,26D

Note that median ages are for living animals only and are NOT average lifespans.

2013 North American Studbook for the Red-legged Seriema

Births from 1 January 2010 – 1 January 2013

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event
303	M	30 Apr 2012	286	207	ORLANDO	30 Apr 2012	RLS255	Hatch
305	?	6 Jun 2012	92	182	LOWRY JNGLARY F	6 Jun 2012 6 Dec 2012	206430 UNK	Hatch Transfer
306	?	6 Jun 2012	92	182	LOWRY	6 Jun 2012 11 Dec 2012	206431	Hatch Death
307	?	12 Jun 2012	155	156	CRAWFRD W	12 Jun 2012	_____	Hatch
308	F	27 Jul 2012	286	207	ORLANDO	27 Jul 2012	RLS256	Hatch
309	M	29 Jul 2012	286	207	ORLANDO	29 Jul 2012	RLS257	Hatch

TOTALS: 2.1.3 (6)

2013 North American Studbook for the Red-legged Seriema

Transfers from 1 January 2010 – 1 January 2013

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event
81	F	7 Jun 1984	59	60	DALLAS CENTRALPK	7 Jun 1984 16 Dec 2011	844042 C11373	Hatch Transfer
86	M	1 Aug 1984	62	31	BATONROUG GULF BREZ BATONROUG DISNEY AK DALLAS CENTRALPK	1 Aug 1984 3 Dec 1988 24 Mar 1995 25 Sep 1997 30 Apr 2002 16 Dec 2011	670 661 670 970161 02E317 C11372	Hatch Transfer Transfer Transfer Transfer Transfer
120	F	18 Jun 1988	62	31	BATONROUG COLUMBIA CALDWELL	18 Jun 1988 18 May 1989 12 Oct 2010	6070 004977 106745	Hatch Transfer Transfer
227	M	~ Jun 1999	228	UNK	WALSRODE QUEBEC GRANBY ROCKTON	~ Jun 1999 11 Apr 2002 26 Oct 2006 25 Aug 2010	 A25001 B99045 	Hatch Transfer Transfer Transfer
265	?	28 May 2006	92	182	LOWRY OMAHA COAL VAL	28 May 2006 16 Nov 2006 16 Jan 2010	205488 16778 	Hatch Transfer Transfer
281	F	~ 2006	UNK	UNK	PRIVATE WORLDBIRD JNGLARY F WORLDBIRD	~ Feb 2007 28 Jun 2007 27 Jul 2009 2 May 2012	 M07042 A6B022 	Transfer Transfer Transfer Transfer
294	F	17 Oct 2008	279	278	WORLDBIRD NASHVILLE	17 Oct 2008 8 Sep 2010	M08016 3345	Hatch Transfer
298	F	3 Sep 2009	86	81	DALLAS PHOENIX COLUMBIA	3 Sep 2009 12 May 2010 6 Dec 2011 8 Dec 2011	09K004 11422 	Hatch Transfer Transfer Death
304	M	~ 2009	UNK	UNK	UNKNOWN GREATBEND	~ 2009 ~ 2011	NONE 209001	Hatch Transfer
305	?	6 Jun 2012	92	182	LOWRY JNGLARY F	6 Jun 2012 6 Dec 2012	206430 UNK	Hatch Transfer

TOTALS: 3.5.2 (10)

Deaths from 1 January 2010 – 1 January 2013

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=====
Stud# | Sex | Hatch Date | Sire | Dam | Location | Date | LocalID | Event |
=====
    49  F   ~10 Dec 1978   21   22  GLENDALE  ~10 Dec 1978   _____  Hatch
      SAN ANTON  11 Dec 1979  791240  Transfer
      2 Feb 2012   Death
Death by: Euthanasia (medical) † Unknown † Generalized † Metabolism †

   178  F    29 Jul 1994   193   119  GILLIS     29 Jul 1994   _____  Hatch
      FRESNO     29 Oct 1995  950222  Transfer
      NZP-WASH   24 Oct 2006  215590  Transfer
      9 Dec 2010   Death
Death by: Infection associated † Unknown † Musculoskeletal † Unknown after necropsy]

   264  F    17 Jul 2006   174   120  COLUMBIA  17 Jul 2006   9348  Hatch
      28 Mar 2011   Death
Death by: Environ/Behav conditions † Unknown † Reproductive † Mechanical abnormality]

   280  M           ~ 2006   UNK   UNK  PRIVATE    ~ Feb 2007   _____  Transfer
      WORLDBIRD  28 Jun 2007  M07041  Transfer
      JNGLARY F  27 Jul 2009  A6B021  Transfer
      28 Nov 2011   Death
Death by: Infection associated † Unknown † Digestive † Mechanical abnormality]

   282  F    23 Oct 2007   279   278  WORLDBIRD  23 Oct 2007  M07047  Hatch
      31 May 2010   Death
Death by: Unknown means]

   295  ?    14 Apr 2009   279   278  WORLDBIRD  14 Apr 2009  M09010  Hatch
      12 Jan 2011   Death
Death by: Unknown means]

   298  F    3 Sep 2009    86    81  DALLAS     3 Sep 2009   09K004  Hatch
      PHOENIX    12 May 2010  11422  Transfer
      COLUMBIA   6 Dec 2011   _____  Transfer
      8 Dec 2011   Death
Death by: Unknown means]

   301  ?    ~ 7 Sep 2010   286   207  ORLANDO   7 Sep 2010   _____  Death
Death by: Dead in shell † Unknown † No necropsy planned]

   302  ?    ~ 7 Sep 2010   286   207  ORLANDO   ~ 7 Sep 2010   _____  Death
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]

   306  ?    6 Jun 2012    92    182  LOWRY      6 Jun 2012  206431  Hatch
      11 Dec 2012   Death
[Death by: Self-inflicted injuries † Unknown † Musculoskeletal † Trauma †
=====
TOTALS: 1.5.4 (10)

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Living Studbook

Dates: 31 Dec 2012

Report ordered by: current/last location (alphabetic)

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Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event
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CALDWELL - Caldwell Zoo, Tyler, Texas, USA

120	F	18 Jun 1988	62	31	BATONROUG	18 Jun 1988	6070	Hatch
					COLUMBIA	18 May 1989	004977	Transfer
					CALDWELL	12 Oct 2010	106745	Transfer
269	M	19 Jul 2007	176	178	NZP-WASH	19 Jul 2007	215650	Hatch
					NY BRONX	28 Nov 2007	B07120	Transfer
					CALDWELL	6 Nov 2008	106250	Transfer

Totals: 1.1.0 (2)

CENTRALPK - Central Park Zoo, Bronx NY, USA

81	F	7 Jun 1984	59	60	DALLAS	7 Jun 1984	844042	Hatch
					NY BRONX	16 Dec 2011	C11373	Transfer
86	M	1 Aug 1984	62	31	BATONROUG	1 Aug 1984	670	Hatch
					GULF BREZ	3 Dec 1988	661	Transfer
					BATONROUG	24 Mar 1995	670	Transfer
					DISNEY AK	25 Sep 1997	970161	Transfer
					DALLAS	30 Apr 2002	02E317	Transfer
					NY BRONX	16 Dec 2011	C11372	Transfer

Totals: 1.1.0 (2)

CINCINNAT - Cincinnati Zoo & Botanical Garden, Cincinnati, Ohio, USA

166	?	23 Jun 1993	64	48	LAKEBUENA	23 Jun 1993	230663	Hatch
					CINCINNAT	14 Jul 1993	293130	Transfer

Totals: 0.0.1 (1)

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COAL VAL - Niabi Zoo, Coal Valley, Illinois, USA

265	?	28 May 2006	92	182	LOWRY	28 May 2006	205488	Hatch
					OMAHA	16 Nov 2006	16778	Transfer
					COAL VAL	16 Jan 2010	_____	Transfer

Totals: 0.0.1 (1)

COLUMBIA - Riverbanks Zoo and Garden, Columbia, South Carolina, USA

289	M	28 Aug 2008	192	88	SEDGWICK	28 Aug 2008	12246	Hatch
					COLUMBIA	19 Nov 2009	10633	Transfer

Totals: 1.0.0 (1)

CRAWFRD W - World Bird Sanctuary (walter Crawford), Valley Park, Missouri, USA

155	M	13 Jun 1992	135	83	SEATTLE	13 Jun 1992	920370	Hatch
					CRAWFRD W	3 Dec 1992	_____	Transfer
156	F	13 Jun 1992	135	83	SEATTLE	13 Jun 1992	920371	Hatch
					CRAWFRD W	10 Jun 1993	_____	Transfer
167	?	4 Sep 1993	64	48	LAKEBUENA	4 Sep 1993	230905	Hatch
					CINCINNAT	26 Oct 1993	293290	Transfer
					CRAWFRD W	27 Oct 1993	_____	Transfer
200	?	28 Jun 1998	176	191	NZP-WASH	28 Jun 1998	214502	Hatch
					CRAWFRD W	19 Nov 1998	_____	Transfer
307	?	12 Jun 2012	155	156	CRAWFRD W	12 Jun 2012	_____	Hatch

Totals: 1.1.3 (5)

DENVER - Denver Zoological Gardens, Denver, Colorado, USA

157	F	12 Jul 1992	95	88	KNOXVILLE	12 Jul 1992	337	Hatch
					DENVER	22 Apr 1999	990191	Transfer

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204	F	24 May 1999	176	191	NZP-WASH	24 May 1999	214319	Hatch
					CRAWFRD W	27 Oct 1999	_____	Transfer
					QUEBEC	4 Oct 2002	A25004	Transfer
					GRANBY	26 Oct 2006	B99046	Transfer
					DENVER	22 Jun 2007	A07277	Transfer

Totals: 0.2.0 (2)

DREHER PA - Palm Beach Zoo At Dreher Park, West Palm Beach, Florida, USA

240	F	19 Aug 2003	186	226	METROZOO	19 Aug 2003	B30232	Hatch
					DREHER PA	11 Feb 2004	204011	Transfer

Totals: 0.1.0 (1)

EDMONDS M - Wonders of Nature, St. Petersburg, FL, USA

256	M	16 Aug 2005	95	164	KNOXVILLE	16 Aug 2005	3147	Hatch
					CRAWFRD W	10 Oct 2007	3147	Transfer
					EDMONDS M	~ 2009	_____	Transfer

Totals: 1.0.0 (1)

GREATBEND - Great Bend Zoo and Raptor Center, Great Bend, Kansas, USA

304	M	~ 2009	UNK	UNK	UNKNOWN	~ 2009	NONE	Hatch
					GREATBEND	~ 2011	209001	Transfer

Totals: 1.0.0 (1)

JACKSONVL - Jacksonville Zoo and Gardens, Jacksonville, Florida, USA

225	F	28 Apr 2002	176	191	NZP-WASH	28 Apr 2002	214880	Hatch
					JACKSONVL	12 Nov 2002	602376	Transfer

Totals: 0.1.0 (1)

JNGLARY F - The Naples Zoo, Naples, Florida, USA

305	?	6 Jun 2012	92	182	LOWRY	6 Jun 2012	206430	Hatch
					JNGLARY F	6 Dec 2012	UNK	Transfer

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Totals: 0.0.1 (1)

KNOXVILLE - Knoxville Zoological Gardens, Knoxville, Tennessee, USA

164	F	20 Jun 1993	64	48	LAKEBUENA	20 Jun 1993	230658	Hatch
					CINCINNAT	14 Jul 1993	293129	Transfer
					CRAWFRD W	19 Jul 1993	_____	Transfer
					KNOXVILLE	15 May 2003	2656	Transfer
205	F	7 Oct 1998	148	171	ST LOUIS	7 Oct 1998	981084	Hatch
					ROCHESTER	8 Apr 1999	104865	Transfer
					KNOXVILLE	11 Nov 2002	2543	Transfer
270	M	4 Aug 2007	174	120	COLUMBIA	4 Aug 2007	9782	Hatch
					KNOXVILLE	29 Dec 2009	_____	Transfer

Totals: 1.2.0 (3)

LOSANGELE - Los Angeles Zoo & Botanical Gardens, Los Angeles, California, USA

186	M	7 Jun 1996	148	171	CROFT L	7 Jun 1996	_____	Hatch
					BATONROUG	21 Aug 1996	7812	Transfer
					DISNEY AK	25 Sep 1997	970160	Transfer
					METROZOO	7 May 2002	B20046	Transfer
					LOSANGELE	14 Jun 2005	991063	Transfer
226	F	28 Apr 2002	176	191	NZP-WASH	28 Apr 2002	214881	Hatch
					METROZOO	14 Nov 2002	B20257	Transfer
					LOSANGELE	14 Jun 2005	991064	Transfer

Totals: 1.1.0 (2)

LOWRY - Tampa's Lowry Park Zoo, Tampa, Florida, USA

92	M	15 Apr 1985	59	60	DALLAS	15 Apr 1985	854269	Hatch
					CALDWELL	6 Jan 1986	000809	Transfer
					LOWRY	1 Nov 2005	205356	Transfer

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182	F	19 Jun 1995	64	48	LAKEBUENA	19 Jun 1995	250635	Hatch
					WORLDBIRD	6 Oct 1995	950610	Transfer
					CALDWELL	25 Sep 1997	104145	Transfer
					LOWRY	1 Nov 2005	205357	Transfer

293	M	19 Apr 2008	92	182	LOWRY	19 Apr 2008	205899	Hatch
-----	---	-------------	----	-----	-------	-------------	--------	-------

Totals: 2.1.0 (3)

LUFKIN - Ellen Trout Zoo, Lufkin, Texas, USA

249	M	13 Jul 2004	174	120	COLUMBIA	13 Jul 2004	8075	Hatch
					LUFKIN	29 Mar 2005	_____	Transfer

Totals: 1.0.0 (1)

METROZOO - Zoo Miami, Miami, Florida, USA

288	M	28 Aug 2008	192	88	SEDGWICK	28 Aug 2008	12243	Hatch
					METROZOO	13 Oct 2009	B90314	Transfer

Totals: 1.0.0 (1)

NASHVILLE - Nashville Zoo, Nashville, Tennessee, USA

257	M	18 Aug 2005	95	164	KNOXVILLE	18 Aug 2005	3148	Hatch
					CRAWFRD W	10 Oct 2007	3148	Transfer
					NASHVILLE	~ 2009	_____	Transfer

294	F	17 Oct 2008	279	278	WORLDBIRD	17 Oct 2008	M08016	Hatch
					NASHVILLE	8 Sep 2010	3345	Transfer

Totals: 1.1.0 (2)

NZP-WASH - Smithsonian National Zoological Park, Washington, DC, USA

176	M	28 Apr 1994	64	48	LAKEBUENA	28 Apr 1994	240419	Hatch
					ORNATUS	11 Oct 1994	240419	Transfer

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NZP-WASH 8 Nov 1995 213705 Transfer

Totals: 1.0.0 (1)

 ORLANDO - Sea World Orlando, Orlando, Florida, USA

207 F 26 Jul 1999 148 171 ST LOUIS 26 Jul 1999 990781 Hatch
 ORLANDO 6 Jan 2000 RLS250 Transfer

286 M 14 May 2008 280 281 WORLDBIRD 14 May 2008 M08001 Hatch
 ORLANDO 17 Oct 2008 RLS252 Transfer

303 M 30 Apr 2012 286 207 ORLANDO 30 Apr 2012 RLS255 Hatch

308 F 27 Jul 2012 286 207 ORLANDO 27 Jul 2012 RLS256 Hatch

309 M 29 Jul 2012 286 207 ORLANDO 29 Jul 2012 RLS257 Hatch

Totals: 3.2.0 (5)

 PITTS CA - National Aviary in Pittsburgh, Pittsburgh, Pennsylvania, USA

273 M 16 May 2007 92 182 LOWRY 16 May 2007 205642 Hatch
 PITTS CA 27 Jan 2008 7564 Transfer

Totals: 1.0.0 (1)

 RIO GRAND - Albuquerque Biological Park, Albuquerque, New Mexico, USA

116 F 25 Apr 1988 92 90 CALDWELL 25 Apr 1988 001582 Hatch
 RIO GRAND 13 Jun 1989 B21734 Transfer

Totals: 0.1.0 (1)

 ROCKTON - African Lion Safari & Game Farm Ltd, Cambridge, Ontario, Canada

227 M ~ Jun 1999 228 UNK WALSRODE ~ Jun 1999 _____ Hatch
 QUEBEC 11 Apr 2002 A25001 Transfer
 GRANBY 26 Oct 2006 B99045 Transfer
 ROCKTON 25 Aug 2010 _____ Transfer

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Totals: 1.0.0 (1)

SAN ANTON - San Antonio Zoological Gardens & Aquarium, San Antonio, Texas, USA

52	M	19 Jun 1979	25	26	SAN ANTON	19 Jun 1979	791643	Hatch
271	M	4 Aug 2007	174	120	COLUMBIA	4 Aug 2007	9783	Hatch
					SAN ANTON	7 Jan 2008	J08008	Transfer
272	F	20 Jul 2007	176	178	NZP-WASH	20 Jul 2007	215651	Hatch
					SAN ANTON	2 Apr 2008	A08003	Transfer

Totals: 2.1.0 (3)

SCOT NECK - Sylvan Heights Waterfowl, Scotland Neck, North Carolina, USA

191	F	30 May 1997	162	139	CL SPR AV	30 May 1997	_____	Hatch
					NZP-WASH	25 Sep 1997	213963	Transfer
					SCOT NECK	~26 Oct 2006	_____	Transfer
250	?	23 Aug 2004	186	226	METROZOO	23 Aug 2004	B40286	Hatch
					SCOT NECK	~ Mar 2005	_____	Transfer

Totals: 0.1.1 (2)

SEDGWICK - Sedgwick County Zoo, Wichita, Kansas, USA

88	F	3 Aug 1984	62	31	BATONROUG	3 Aug 1984	671	Hatch
					GREENVISC	20 May 1986	86A046	Transfer
					KNOXVILLE	27 Apr 1988	100	Transfer
					SEDGWICK	24 Apr 2003	10408	Transfer
192	M	28 Jan 1998	162	139	CL SPR AV	28 Jan 1998	_____	Hatch
					SEDGWICK	24 Jun 1999	8965	Transfer

Totals: 1.1.0 (2)

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ST LOUIS - Saint Louis Zoological Park, St Louis, Missouri, USA

239	M	13 May 2003	176	191	NZP-WASH	13 May 2003	215078	Hatch
					AUDUBON	6 Nov 2003	101104	Transfer
					ST LOUIS	21 Mar 2007	105679	Transfer

Totals: 1.0.0 (1)

TACOMA - Point Defiance Zoo & Aquarium, Tacoma, Washington, USA

255	F	22 Jul 2005	246	178	FRESNO	22 Jul 2005	250068	Hatch
					TACOMA	22 Jul 2005	T05A02	Transfer

Totals: 0.1.0 (1)

TORONTO - Toronto Zoo, Scarborough, Ontario, Canada

185	F	14 May 1996	162	139	CL SPR AV	14 May 1996	_____	Hatch
					ORNATUS	7 Nov 1996	_____	Transfer
					CROFT L	~ 1 Dec 1998	_____	Transfer
					PITRE	~ Jan 2001	_____	Transfer
					BOYLE	15 Jun 2001	_____	Transfer
					TORONTO	21 May 2004	39385	Transfer
221	M	10 Oct 2001	163	185	BOYLE	10 Oct 2001	61	Hatch
					QUEBEC	20 Apr 2002	A25002	Transfer
					TORONTO	~ Jun 2008	41434	Transfer

Totals: 1.1.0 (2)

TRACY AV - Tracy Aviary, Salt Lake City, Utah, USA

278	F	~ 2006	UNK	UNK	PRIVATE	~ Feb 2007	_____	Transfer
					WORLDBIRD	26 Apr 2007	M07035	Transfer
					TRACY AV	14 Sep 2009	2009	Transfer
279	M	~ 2006	UNK	UNK	PRIVATE	~ Feb 2007	_____	Transfer
					WORLDBIRD	26 Apr 2007	M07036	Transfer
					TRACY AV	14 Sep 2009	2008	Transfer

Totals: 1.1.0 (2)

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TULSA - Tulsa Zoo & Living Museum, Tulsa, Oklahoma, USA

46	M	~ 5 Feb 1978	21	22	GLENDAL	~ 5 Feb 1978	_____	Hatch
					TULSA	5 Feb 1979	3287	Transfer

Totals: 1.0.0 (1)

WILD WRLD - Wildlife World Zoo, Litchfield Park, Arizona, USA

64	M	10 May 1982	59	60	DALLAS	10 May 1982	823255	Hatch
					LAKEBUENA	2 Nov 1982	121101	Transfer
					WILD WRLD	5 Nov 1999	6195	Transfer
206	M	8 Oct 1998	148	171	ST LOUIS	8 Oct 1998	982001	Hatch
					WILD WRLD	3 Mar 1999	6119	Transfer
242	F	16 Oct 2003	192	88	SEDGWICK	16 Oct 2003	10649	Hatch
					WILD WRLD	8 Apr 2004	7425	Transfer
258	M	22 Sep 2005	64	242	WILD WRLD	22 Sep 2005	7683	Hatch
261	M	20 Sep 2005	64	242	WILD WRLD	20 Sep 2005	7682	Hatch
284	M	27 Apr 2008	64	242	WILD WRLD	27 Apr 2008	7640	Hatch
296	?	18 Apr 2009	64	242	WILD WRLD	18 Apr 2009	8860	Hatch
297	?	8 Jun 2009	64	242	WILD WRLD	8 Jun 2009	8902	Hatch

Totals: 5.1.2 (8)

WORLDBIRD - Natural Encounters Inc, Winter Haven, Florida, USA

189	M	4 Jul 1996	95	88	KNOXVILLE	4 Jul 1996	632	Hatch
					LAKEBUENA	6 Mar 1997	270314	Transfer
					WORLDBIRD	24 Aug 1999	990021	Transfer

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281	F	~ 2006	UNK	UNK	PRIVATE	~ Feb 2007	_____	Transfer
					WORLDBIRD	28 Jun 2007	M07042	Transfer
					JNGLARY F	27 Jul 2009	A6B022	Transfer
					WORLDBIRD	2 May 2012	_____	Transfer
287	F	30 May 2008	279	278	WORLDBIRD	30 May 2008	M08002	Hatch

Totals: 1.2.0 (3)

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TOTALS: 31.24.10 (65)

33 Institutions

HISTORICAL STUDBOOK

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	LocalID	Event	Hatch Origin
1	?	~ 1890	WILD	WILD	S.AMERICA NZP-WASH	~ Jan 1891 23 Jun 1891 4 Oct 1897	NONE _____	Capture Transfer Death	Wild Hatch
[Death by: Unknown means]									
2	?	~ 1891	WILD	WILD	S.AMERICA PHILADELP	~ 1892 12 May 1892 4 Dec 1895	NONE 20547	Capture Transfer Death	Wild Hatch
[Death by: Unknown means]									
3	?	~ 1901	WILD	WILD	S.AMERICA HAMBURG NZP-WASH	~ 1903 ~ 1903 7 Aug 1903 24 Jun 1904	NONE _____ _____	Capture Transfer Transfer Death	Wild Hatch
[Death by: Self-inflicted injuries † Given to an institution: NATURAL HISTORY MUSEUM/SMITHSONIAN † Digestive † Trauma]									
4	M	~ 1906	WILD	WILD	PARAGUAY NZP-WASH	~ 1908 11 Apr 1908 21 Nov 1908	NONE _____	Capture Transfer Death	Wild Hatch
[Death by: Self-inflicted injuries † Given to an institution: NATURAL HISTORY MUSEUM † Digestive † Trauma]									
5	?	~ 1907	WILD	WILD	S.AMERICA NZP-WASH	~ 1907 14 Mar 1908 15 Jul 1921	NONE _____	Capture Transfer Death	Wild Hatch
[Death by: Unknown means]									

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6	?	~ 1907	WILD	WILD	S.AMERICA L RUHE PHILADELP	~ 1908 ~ 1908 12 May 1908 6 Feb 1909	NONE <u> </u> 20548	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]									
7	F	~ 1910	WILD	WILD	S.AMERICA NY BRONX PHILADELP	~ 1911 ~ 1911 1 May 1912 23 May 1912	NONE <u> </u> 20549	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]									
8	F	~ 1925	WILD	WILD	S.AMERICA JOSEPH E PHILADELP	~ 1926 ~ 1926 12 May 1926 3 Nov 1934	NONE <u> </u> 20550	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]									
9	F	~ 1925	WILD	WILD	S.AMERICA JOSEPH E PHILADELP	~ 1926 ~ 1926 12 May 1926 26 Jan 1940	NONE <u> </u> 20551	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]									
10	?	~ 1930	WILD	WILD	S.AMERICA NZP-WASH	~ 1930 21 Aug 1931 6 Aug 1935	NONE <u> </u>	Capture Transfer Death	Wild Hatch
[Death by: Unknown means]									
11	?	~ 1934	WILD	WILD	S.AMERICA IBANEZ SANDIEGOZ	~ 1934 ~ 1934 5 Sep 1935 9 Oct 1956	NONE <u> </u> 413626	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]									
12	?	~ 1934	WILD	WILD	S.AMERICA	~ 1934	NONE	Capture	Wild Hatch

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					IBANEZ	~ 1934		Transfer	
					SANDIEGOZ	5 Sep 1935	413627	Transfer	
						31 Jan 1957		Death	
					[Death by: Unknown means]				
13	M	~ 1933	WILD	WILD	S.AMERICA	~ 1934	NONE	Capture	Wild Hatch
					L RUHE	~ 1934		Transfer	
					PHILADELP	22 May 1934	20552	Transfer	
						10 Jun 1934		Death	
					[Death by: Unknown means]				
14	M	~ 1934	WILD	WILD	S.AMERICA	~ 1935	NONE	Capture	Wild Hatch
					JOSEPH E	~ 1935		Transfer	
					PHILADELP	21 Nov 1935	20553	Transfer	
						7 Jan 1936		Death	
					[Death by: Unknown means]				
15	?	~ 1938	WILD	WILD	S.AMERICA	~ 1938	NONE	Capture	Wild Hatch
					NZP-WASH	27 Jun 1939		Transfer	
						~ 1957		Death	
					[Death by: Unknown means]				
16	?	~ 1938	WILD	WILD	S.AMERICA	~ 1938	NONE	Capture	Wild Hatch
					NZP-WASH	27 Jun 1939	16886	Transfer	
						13 Jun 1967		Death	
					[Death by: Unknown means]				
17	M	~ 1964	WILD	WILD	S.AMERICA	~ 1966	NONE	Capture	Wild Hatch
					J HANAN	~ 1966		Transfer	
					OKLAHOMA	8 Feb 1966	072001	Transfer	
						28 Feb 1973		Death	
					[Death by: Environ/Behav conditions † Unknown † Integumentary † Circulatory, secondary]				
18	F	~ 1964	WILD	WILD	S.AMERICA	~ 1966	NONE	Capture	Wild Hatch
					J HANAN	~ 1966		Transfer	
					OKLAHOMA	8 Feb 1966	072102	Transfer	
						31 Oct 1975		Death	

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[Death by: Injury from predator † Unknown † Generalized † Trauma]											
19	M	~ 1966	WILD	WILD	S.AMERICA	~ 1968	NONE	Capture	Wild Hatch		
					HERMOSA B			~ 1968		Transfer	
					SANDIEGOZ			17 Oct 1968		200602	Transfer
					TOLEDO			10 Feb 1977		771509	Transfer
					LEBEDA			26 Oct 1989			ltf
20	M	~ 1964	WILD	WILD	S.AMERICA	~ 1966	NONE	Capture	Wild Hatch		
					CHASE B			~ 1966		Transfer	
					SANDIEGOZ			26 Sep 1967		413628	Transfer
								25 Dec 1968			Death
					[Death by: Unknown means]						
21	M	~ 1964	WILD	WILD	S.AMERICA	~ 1965	NONE	Capture	Wild Hatch		
					CHASE B			~ 1965		Transfer	
					SOLANO C			~ 1965		Transfer	
					GLENDALE			~ 1970		Transfer	
								~ 1981		Death	
[Death by: Unknown means]											
22	F	~ 1964	WILD	WILD	S.AMERICA	~ 1965	NONE	Capture	Wild Hatch		
					CHASE B			~ 1965		Transfer	
					SOLANO C			~ 1965		Transfer	
					GLENDALE			~ 1970		Transfer	
								~ 1981		Death	
[Death by: Unknown means]											
23	F	~ 1965	WILD	WILD	S.AMERICA	~ 1966	NONE	Capture	Wild Hatch		
					ABILENE			1 Jul 1966		200	Transfer
					TORONTO			28 Oct 1982		16856	Transfer
								23 Jan 1988			Death
[Death by: Infection associated † Unknown † Digestive † Metabolism]											
24	M	~ 1965	WILD	WILD	S.AMERICA	~ Jan 1966	NONE	Capture	Wild Hatch		
					ABILENE			1 Jul 1966		201	Transfer
					TORONTO			28 Oct 1982		16855	Transfer

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						19 Sep 1990		Death	
						[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Toxicity]			
25	M	~ 1966	WILD	WILD	S.AMERICA	~ Jan 1968	NONE	Capture	Wild Hatch
					SAN ANTON	8 Apr 1968	680072	Transfer	
						23 Nov 1985		Death	
						[Death by: Unknown means]			
26	F	~ 1966	WILD	WILD	S.AMERICA	~ Jan 1968	NONE	Capture	Wild Hatch
					SAN ANTON	8 Apr 1968	680073	Transfer	
					GILLIS	6 Apr 1992	_____	Transfer	
						~ 1997		Death	
						[Death by: Unknown means]			
27	M	~ 1966	WILD	WILD	S.AMERICA	~ Dec 1967	NONE	Capture	Wild Hatch
					SAN ANTON	1 Jan 1968	680097	Transfer	
					LAKEBUENA	9 Nov 1978	081102	Transfer	
						1 Jan 1992		Death	
						[Death by: Unknown means]			
28	F	~ 1966	WILD	WILD	S.AMERICA	~ Dec 1967	NONE	Capture	Wild Hatch
					SAN ANTON	1 Jan 1968	680098	Transfer	
					LAKEBUENA	9 Nov 1978	081103	Transfer	
						1 Jan 1992		Death	
						[Death by: Unknown means]			
29	F	~ 1967	WILD	WILD	S.AMERICA	~ 1968	NONE	Capture	Wild Hatch
					CHASE B	~ 1968	_____	Transfer	
					NZP-WASH	5 Sep 1968	33377	Transfer	
					NZP-CRC	3 May 1983	33377	Transfer	
					TRACY AV	17 Sep 1985	850515	Transfer	
						~ 1988		Death	
						[Death by: Infection associated † Unknown † Generalized † Trauma]			
30	M	~ 1969	WILD	WILD	S.AMERICA	~ 1969	NONE	Capture	Wild Hatch
					CHASE B	~ 1969	_____	Transfer	
					BATONROUG	19 Jul 1971	90	Transfer	

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					MONTGOMRY	4 Oct 1983	_____	Transfer	
					BATONROUG	5 Aug 1988	90	Transfer	
					EVANSVILLE	10 Aug 1988	288104	Transfer	
						14 Jul 1992		Death	
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]				
31	F	~ 1969	WILD	WILD	S.AMERICA	~ 1971	NONE	Capture	Wild Hatch
					CHASE B	~ 1971	_____	Transfer	
					BATONROUG	19 Jul 1971	89	Transfer	
						23 Jun 1988		Death	
					[Death by: Unknown means]				
32	F	~ 1970	WILD	WILD	S.AMERICA	~ 1971	NONE	Capture	Wild Hatch
					FREY W	~ 1971	_____	Transfer	
					PHILADELP	19 May 1972	20554	Transfer	
					NZP-WASH	13 Sep 1973	201845	Transfer	
						4 Aug 1983		Death	
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]				
33	?	27 Jan 1998	162	139	CL SPR AV	27 Jan 1998	_____	Hatch	Captive Hatch
						~ 1998		Death	
					[Death by: Unknown means]				
34	?	~ 1970	WILD	WILD	S.AMERICA	~ 1972	NONE	Capture	Wild Hatch
					MERRIT	~ 1972	_____	Transfer	
					CHICAGOLP	8 Apr 1972	4099	Transfer	
						16 Aug 1972		Death	
					[Death by: Unknown means]				
35	M	~ 1970	WILD	WILD	S.AMERICA	~ 1972	NONE	Capture	Wild Hatch
					FREY W	~ 1972	_____	Transfer	
					PHILADELP	19 May 1972	20555	Transfer	
						25 May 1972		Death	
					[Death by: Other/Unknown † Unknown † Generalized † Trauma]				
36	M	~ 1970	WILD	WILD	S.AMERICA	~ 1971	NONE	Capture	Wild Hatch
					SCHEDDEL	~ 1971	_____	Transfer	

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					TOLEDO	1 Jan 1971	711508	Transfer	
						28 Dec 1987		Death	
					[Death by: Euthanasia (medical) † Incinerate † Unknown (after necropsy)]				
37	M	~ 1971	WILD	WILD	S.AMERICA	~ 1973	NONE	Capture	Wild Hatch
					CHICAGOLP	1 Jan 1973		Transfer	
					OKLAHOMA	5 Dec 1973	343203	Transfer	
						9 Jun 1974		Death	
					[Death by: Unknown means]				
38	F	~ 1972	WILD	WILD	S.AMERICA	~ 1974	NONE	Capture	Wild Hatch
					CHASE B	~ 1974		Transfer	
					COLUMBIA	10 May 1974	SJ0280	Transfer	
					NZP-WASH	12 May 1981	206529	Transfer	
						7 Aug 1981		Death	
					[Death by: Injury from exhibit mate † Mounted or Preserved: NATURAL HISTORY MUSEUM Smithsonian Institution † Generalized † Trauma]				
39	F	~ 1972	WILD	WILD	S.AMERICA	~ 1975	NONE	Capture	Wild Hatch
					CHASE B	~ 1975		Transfer	
					BATONROUG	5 Nov 1975	91	Transfer	
					CHATFIELD	26 Jan 1982		Transfer	
					SAN FRAN	4 Nov 1983	283022	Transfer	
					LOSANGELE	5 Nov 1983	001484	Transfer	
						11 Jan 1991		Death	
					[Death by: Euthanasia (medical) † Given to an institution: LA MUS † Musculoskeletal † Bacterial]				
40	M	11 Jul 1973	25	26	SAN ANTON	11 Jul 1973	730749	Hatch	Captive Hatch
						10 Jun 1977		Death	
					[Death by: Unknown means]				
41	M	~ 1975	WILD	WILD	S.AMERICA	~ 1977	NONE	Capture	Wild Hatch
					LOSANGELE	~ May 1977	06764	Transfer	
					COLUMBIA	18 Aug 1977	SJ1167	Transfer	
						~ Jul 1998		Death	
					[Death by: Unknown means]				

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42	M	~ 1977	21	22	GLENDALE NZP-WASH	~ 1977 13 Apr 1978 2 May 1978	_____	205318	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]										
43	M	~ 1977	WILD	WILD	S.AMERICA BELLBIRD SANDIEGOZ ORNATUS	~ 1979 ~ 1980 22 Jan 1981 19 Oct 1989 5 Nov 1997	NONE _____	281491 281491	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]										
44	?	14 Jun 1977	25	26	SAN ANTON	14 Jun 1977 2 Jul 1977	770630		Hatch Death	Captive Hatch
[Death by: Unknown means]										
45	F	~ 1978	WILD	WILD	S.AMERICA SANDIEGOZ SD-WAP	~ 1980 22 Jan 1981 2 Mar 1983 8 Aug 1984	NONE 016483 016483		Capture Transfer Transfer Death	Wild Hatch
[Death by: Injury from exhibit mate † Given to an institution: † Musculoskeletal † Trauma]										
46	M	~ 5 Feb 1978	21	22	GLENDALE TULSA	~ 5 Feb 1978 5 Feb 1979	_____	3287	Hatch Transfer	Captive Hatch
47	F	~ 5 Feb 1978	21	22	GLENDALE TULSA	~ 5 Feb 1978 5 Feb 1979 22 Jun 2004	_____	3288	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]										
48	F	23 May 1978	25	26	SAN ANTON LAKEBUENA	23 May 1978 9 Nov 1978 18 Jan 1999	781594 081101		Hatch Transfer Death	Captive Hatch
[Death by: Euthanasia (medical) † Incinerate † Musculoskeletal † Mechanical abnormality]										
49	F	~10 Dec 1978	21	22	GLENDALE	~10 Dec 1978	_____		Hatch	Captive Hatch

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					SAN ANTON	11 Dec 1979	791240	Transfer	
						2 Feb 2012		Death	
					[Death by: Euthanasia (medical) † Unknown † Generalized † Metabolism † Necropsy not received]				
50	M	~25 Jan 1979	21	22	GLENDALE	~25 Jan 1979	_____	Hatch	Captive Hatch
					BATONROUG	26 Jan 1980	340	Transfer	
					CHATFIELD	26 Jan 1982	_____	Transfer	
					SAN FRAN	4 Nov 1983	283021	Transfer	
					LOSANGELE	5 Nov 1983	001483	Transfer	
						2 Sep 1992		Death	
					[Death by: Euthanasia (medical) † Given to an institution: LA MUSEUM\ † Musculoskeletal † Bacterial]				
51	F	~23 May 1979	21	22	GLENDALE	~23 May 1979	_____	Hatch	Captive Hatch
					SAN ANTON	23 May 1980	801519	Transfer	
					NZP-WASH	3 May 1984	208265	Transfer	
					CL SPR AV	31 Aug 1995	_____	Transfer	
						~ 1 Dec 2000		Death	
					[Death by: Unknown means]				
52	M	19 Jun 1979	25	26	SAN ANTON	19 Jun 1979	791643	Hatch	Captive Hatch
53	M	~ 6 Feb 1980	21	22	GLENDALE	~ 6 Feb 1980	_____	Hatch	Captive Hatch
					WILD WRLD	5 Feb 1984	349	Transfer	
						16 Nov 1989		Death	
					[Death by: Unknown means]				
54	F	~ 6 Feb 1980	21	22	GLENDALE	~ 6 Feb 1980	_____	Hatch	Captive Hatch
					WILD WRLD	5 Feb 1984	350	Transfer	
						27 Jun 1989		Death	
					[Death by: Unknown means]				
55	M	29 Mar 1980	21	22	GLENDALE	29 Mar 1980	_____	Hatch	Captive Hatch
					SANDIEGOZ	29 Aug 1980	204375	Transfer	
					SD-WAP	2 Mar 1983	204375	Transfer	
					ATASCADER	29 Jul 1987	870009	Transfer	

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					SAFARI W	10 Feb 1993	870009	Transfer	
						15 Jun 1996		Death	
					[Death by: Unknown means]				
56	F	~ 1983	55	45	UNKNOWN	~ 1983	_____	Hatch	Unk HatchType
					SANDIEGOZ	24 Aug 1984	026617	Transfer	
					SD-WAP	3 Oct 1984	026617	Transfer	
					ATASCADER	30 Jun 1987	870010	Transfer	
					SAFARI W	10 Feb 1993	29309	Transfer	
						15 Jun 1996		Death	
					[Death by: Unknown means]				
57	F	29 Mar 1980	21	22	GLENDALE	29 Mar 1980	_____	Hatch	Captive Hatch
					SANDIEGOZ	29 Aug 1980	204376	Transfer	
					ORNATUS	19 Oct 1989	204376	Transfer	
						~25 Oct 1989		Death	
					[Death by: Unknown means]				
58	M	~23 Jul 1980	WILD	WILD	BOLIVIA	~ 1981	NONE	Capture	Wild Hatch
					WORLDWIDE	~ 1981	_____	Transfer	
					DALLAS	24 Jul 1981	813001	Transfer	
						18 Sep 1992		Death	
					[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]				
59	M	~23 Jul 1980	WILD	WILD	BOLIVIA	~ 1981	NONE	Capture	Wild Hatch
					WORLDWIDE	~ 1981	_____	Transfer	
					DALLAS	24 Jul 1981	813002	Transfer	
					PHILADELP	12 Sep 1986	203346	Transfer	
						25 Dec 1989		Death	
					[Death by: Euthanasia (medical) † Unknown † Generalized † Trauma]				
60	F	~23 Jul 1980	WILD	WILD	BOLIVIA	~ 1981	NONE	Capture	Wild Hatch
					WORLDWIDE	~ 1981	_____	Transfer	
					DALLAS	24 Jul 1981	813003	Transfer	
					PHILADELP	12 Sep 1986	203347	Transfer	
					BATONROUG	9 Jan 1992	6882	Transfer	
						14 May 1993		Death	

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[Death by: Infection associated † Unknown † Unknown (after necropsy)]									
61	M	25 Jul 1980	46	47	TULSA	25 Jul 1980	4309	Hatch	Captive Hatch
					NZP-WASH	17 Jun 1981	206814	Transfer	
						25 Dec 1983		Death	
[Death by: Infection associated † Incinerate † Digestive † Nutrition]									
62	M	~ 1981	WILD	WILD	S.AMERICA	~ 1983	NONE	Capture	Wild Hatch
					CHASE B	~ 1983		Transfer	
					BATONROUG	6 Apr 1983	550	Transfer	
						12 Feb 1992		Death	
[Death by: Unknown means]									
63	M	5 Jun 1981	46	47	TULSA	5 Jun 1981	4705	Hatch	Captive Hatch
					BATONROUG	2 Sep 1982	512	Transfer	
					MONTGOMRY	4 Oct 1983		Transfer	
					BATONROUG	5 Aug 1988	512	Transfer	
					EVANSVILLE	10 Aug 1988	288105	Transfer	
					BATONROUG	19 Oct 1992	512	Transfer	
					DALLAS	9 Sep 1993	938556	Transfer	
						5 May 1999		Death	
[Death by: Self-inflicted injuries † Unknown † Musculoskeletal † Trauma]									
64	M	10 May 1982	59	60	DALLAS	10 May 1982	823255	Hatch	Captive Hatch
					LAKEBUENA	2 Nov 1982	121101	Transfer	
					WILD WRLD	5 Nov 1999	6195	Transfer	
65	F	25 May 1982	55	45	SANDIEGOZ	25 May 1982	082719	Hatch	Captive Hatch
					NZP-CRC	23 Mar 1983	207661	Transfer	
					DETROIT	16 Oct 1985	1617	Transfer	
					KNOXVILLE	3 Mar 1988	99	Transfer	
					WORLDBIRD	23 Sep 1992		Transfer	
					KNOXVILLE	26 Oct 1992	99	Transfer	
						20 Feb 2001		Death	
[Death by: Euthanasia (medical) † Given to an institution: UTCVM † Generalized † Unknown after necropsy]									

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66	?	25 May 1982	55	UNK	SANDIEGOZ LEVIN	25 May 1982 29 Feb 1984	082720 _____	Hatch lft	Captive Hatch
67	M	12 Jun 1982	55	45	SANDIEGOZ MICH KEN	12 Jun 1982 29 Apr 1987	082838 _____	Hatch lft	Captive Hatch
68	M	13 Jun 1982	55	45	SANDIEGOZ MICH KEN	13 Jun 1982 29 Apr 1987	082844 _____	Hatch lft	Captive Hatch
69	F	2 Jul 1982	55	UNK	SANDIEGOZ LANNOM	2 Jul 1982 26 Feb 1984 ~ 1995	082901 _____	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]									
70	?	3 Jul 1982	55	UNK	SANDIEGOZ	3 Jul 1982 14 Jan 1984	082902 _____	Hatch Death	Captive Hatch
[Death by: Unknown means]									
71	M	16 Sep 1982	55	UNK	SANDIEGOZ LANNOM	16 Sep 1982 26 Feb 1984 ~ 1995	182170 _____	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]									
72	?	16 Sep 1982	55	UNK	SANDIEGOZ STEHLY	16 Sep 1982 14 Oct 1983	182171 _____	Hatch lft	Captive Hatch
73	?	15 Apr 1983	59	60	DALLAS SAFARI W	15 Apr 1983 2 Nov 1983	833594 _____	Hatch lft	Captive Hatch
74	?	15 Apr 1983	59	60	DALLAS SAFARI W	15 Apr 1983 2 Nov 1983	833595 _____	Hatch lft	Captive Hatch
75	?	19 May 1983	52	49	SAN ANTON	19 May 1983 20 May 1983	831520 _____	Hatch Death	Captive Hatch
[Death by: Unknown means]									
76	M	20 May 1983	52	49	SAN ANTON	20 May 1983	831537	Hatch	Captive Hatch

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					NZP-WASH	3 May 1984	208264	Transfer	
						16 Feb 1994		Death	
					[Death by: Infection associated † Incinerate † Generalized † Trauma]				
77	M	20 May 1983	52	49	SAN ANTON HENDEE	20 May 1983 3 Oct 1984	831536 _____	Hatch ltf	Captive Hatch
78	M	14 Jul 1983	46	47	TULSA BALTIMORE TOLEDO LEBEDA	14 Jul 1983 11 Jun 1987 5 Oct 1988 26 Oct 1989	6118 87957 881591 _____	Hatch Transfer Transfer ltf	Captive Hatch
79	?	19 May 1984	53	54	WILD WRLD	19 May 1984 29 May 1984	385	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
80	F	7 Jun 1984	59	60	DALLAS	7 Jun 1984 2 Nov 1984	844041	Hatch Death	Captive Hatch
					[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]				
81	F	7 Jun 1984	59	60	DALLAS NY BRONX	7 Jun 1984 16 Dec 2011	844042 C11373	Hatch Transfer	Captive Hatch
82	F	10 Jun 1984	52	49	SAN ANTON DETROIT	10 Jun 1984 17 Jul 1985 21 Aug 1985	840641 1542	Hatch Transfer Death	Captive Hatch
					[Death by: Euthanasia (medical) † Incinerate † Musculoskeletal † Trauma]				
83	F	11 Jun 1984	52	49	SAN ANTON DETROIT BALTIMORE SEATTLE	11 Jun 1984 17 Jul 1985 17 Jul 1987 9 Apr 1988 4 Sep 2003	840654 1543 87966 880117	Hatch Transfer Transfer Transfer Death	Captive Hatch
					[Death by: Infection associated † Unknown † Generalized † Toxicity]				
84	M	26 Jul 1984	46	47	TULSA TRACY AV	26 Jul 1984 9 Aug 1985	6834 850514	Hatch Transfer	Captive Hatch

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						17 Dec 1987		Death	
			[Death by: Unknown means]						
85	?	27 Jul 1984	46	47	TULSA	27 Jul 1984	6844	Hatch	Captive Hatch
						2 Aug 1984		Death	
			[Death by: Unknown means]						
86	M	1 Aug 1984	62	31	BATONROUG	1 Aug 1984	670	Hatch	Captive Hatch
					GULF BREZ	3 Dec 1988	661	Transfer	
					BATONROUG	24 Mar 1995	670	Transfer	
					DISNEY AK	25 Sep 1997	970161	Transfer	
					DALLAS	30 Apr 2002	02E317	Transfer	
					NY BRONX	16 Dec 2011	C11372	Transfer	
87	F	1 Aug 1984	62	31	BATONROUG	1 Aug 1984	642	Hatch	Captive Hatch
					ALEXANDRI	2 Mar 1992	AV0001	Transfer	
						~ Jun 2003		Death	
			[Death by: Unknown means]						
88	F	3 Aug 1984	62	31	BATONROUG	3 Aug 1984	671	Hatch	Captive Hatch
					GREENVISC	20 May 1986	86A046	Transfer	
					KNOXVILLE	27 Apr 1988	100	Transfer	
					SEDGWICK	24 Apr 2003	10408	Transfer	
89	?	29 Aug 1984	62	31	BATONROUG	29 Aug 1984	5673	Hatch	Captive Hatch
						16 Nov 1984		Death	
			[Death by: Unknown means]						
90	F	14 Apr 1985	59	60	DALLAS	14 Apr 1985	854268	Hatch	Captive Hatch
					CALDWELL	6 Jan 1986	000810	Transfer	
						24 May 1989		Death	
			[Death by: Environ/Behav conditions † Bury † No necropsy planned]						
91	?	14 Apr 1985	59	60	DALLAS	14 Apr 1985	854267	Hatch	Captive Hatch
						17 Aug 1985		Death	
			[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]						

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92	M	15 Apr 1985	59	60	DALLAS CALDWELL LOWRY	15 Apr 1985 6 Jan 1986 1 Nov 2005	854269 000809 205356	Hatch Transfer Transfer	Captive Hatch
93	?	20 May 1985	62	31	BATONROUG	20 May 1985 5 Jun 1985	5769	Hatch Death	Captive Hatch
[Death by: Unknown means]									
94	F	31 May 1985	52	49	SAN ANTON TACOMA WINSTON DRAKE P	31 May 1985 27 Feb 1986 3 Apr 1989 29 Aug 1990	852525 86A002 850001 _____	Hatch Transfer Transfer ltf	Captive Hatch
95	M	19 Jun 1985	62	31	BATONROUG GREENVISC KNOXVILLE	19 Jun 1985 20 May 1986 27 Apr 1988 ~15 Aug 2008	5770 86A047 101	Hatch Transfer Transfer Death	Captive Hatch
[Death by: Unknown means]									
96	?	1 Jan 1986	62	31	BATONROUG	1 Jan 1986 10 Apr 1986	5819	Hatch Death	Captive Hatch
[Death by: Unknown means]									
97	?	3 Jan 1986	62	31	BATONROUG	3 Jan 1986 3 Feb 1986	5820	Hatch Death	Captive Hatch
[Death by: Unknown means]									
98	F	3 Apr 1986	UNK	UNK	SD-WAP	3 Apr 1986 3 Apr 1986	029553	Hatch Death	Captive Hatch
[Death by: Unknown means]									
99	F	5 Apr 1986	58	81	DALLAS C. YOUNG	5 Apr 1986 15 Jan 1987	864605 _____	Hatch ltf	Captive Hatch
100	M	5 Apr 1986	58	81	DALLAS AURORA	5 Apr 1986 20 Nov 1986	864606 _____	Hatch ltf	Captive Hatch

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101	F	18 May 1986	52	49	SAN ANTON EVANSVILLE	18 May 1986 15 Oct 1987 11 Jun 1990	861507 287189	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]									
102	F	25 May 1986	55	56	SD-WAP MICH KEN	25 May 1986 29 Apr 1987	034584 _____	Hatch ltf	Captive Hatch
103	M	~ May 1996	148	171	CROFT L GILLIS	~ May 1996 ~ Jan 2001	_____ _____	Hatch ltf	Captive Hatch
104	?	27 Jun 1986	58	81	DALLAS	27 Jun 1986 17 Jul 1986	864714	Hatch Death	Captive Hatch
[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]									
105	?	10 Jul 1986	62	31	BATONROUG DISCH J	10 Jul 1986 4 Apr 1987	5893 _____	Hatch ltf	Captive Hatch
106	?	16 Aug 1986	62	31	BATONROUG DISCH J	16 Aug 1986 4 Apr 1987	5916 _____	Hatch ltf	Captive Hatch
107	?	5 Sep 1986	62	31	BATONROUG DISCH J	5 Sep 1986 4 Apr 1987	5917 _____	Hatch ltf	Captive Hatch
108	?	17 Apr 1987	62	31	BATONROUG GULF BREZ	17 Apr 1987 20 Jun 1987 8 Aug 1994	5983 378	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]									
109	F	24 May 1987	58	81	DALLAS ALEXANDRI AUDUBON	24 May 1987 9 Dec 1987 14 Jan 2006 25 Apr 2006	874967 439001 101858	Hatch Transfer Transfer Death	Captive Hatch
[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]									
110	?	12 Jun 1987	52	49	SAN ANTON EVANSVILLE	12 Jun 1987 15 Oct 1987	870672 287190	Hatch Transfer	Captive Hatch

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						2 Mar 1988		Death	
						[Death by: Euthanasia (medical) † Unknown † Integumentary † Trauma]			
111	M	19 Jul 1987	43	57	SANDIEGOZ	19 Jul 1987	387823	Hatch	Captive Hatch
					SD-WAP	11 Sep 1987	387823	Transfer	
					SANDIEGOZ	16 Mar 1988		Death	
					[Death by: Euthanasia (medical) † Given to an institution: † Musculoskeletal † Mechanical abnormality]				
112	F	27 Aug 1987	92	90	CALDWELL	27 Aug 1987	001503	Hatch	Captive Hatch
					SEATTLE	20 Mar 1989	890052	Transfer	
					CALDWELL	9 May 1989	001503	Transfer	
					MINNESOTA	24 Oct 1989	6366	Transfer	
					KANSASCTY	17 Sep 1991	202783	Transfer	
						~ Jun 2007		Death	
					[Death by: Unknown means]				
113	?	3 Apr 1988	58	81	DALLAS	3 Apr 1988	886174	Hatch	Captive Hatch
					MCCOY T	9 Jun 1988	_____	lft	
114	?	3 Apr 1988	58	81	DALLAS	3 Apr 1988	886175	Hatch	Captive Hatch
					MCCOY T	9 Jun 1988	_____	lft	
115	?	3 Apr 1988	58	81	DALLAS	3 Apr 1988	886176	Hatch	Captive Hatch
					MCCOY T	9 Jun 1988	_____	lft	
116	F	25 Apr 1988	92	90	CALDWELL	25 Apr 1988	001582	Hatch	Captive Hatch
					RIO GRAND	13 Jun 1989	B21734	Transfer	
117	F	28 May 1988	52	49	SAN ANTON	28 May 1988	881584	Hatch	Captive Hatch
					CALDWELL	19 Jul 1989	001592	Transfer	
						11 Jun 1993		Death	
					[Death by: Infection associated † Bury † Reproductive † Trauma]				
118	M	7 Jun 1988	55	56	ATASCADER	7 Jun 1988	880025	Hatch	Captive Hatch
					RUNDEL	1 Jun 1989	_____	Transfer	
					SAN FRAN	19 Jul 1989	289015	Transfer	

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					RUNDEL	1 Jan 1991	_____	Transfer	
					GILLIS	~ 1994	_____	Transfer	
						14 Jul 1997		Death	
					[Death by: Unknown means]				
119	F	7 Jun 1988	55	56	ATASCADER	7 Jun 1988	880026	Hatch	Captive Hatch
					RUNDEL	1 Jun 1989	_____	Transfer	
					SAN FRAN	19 Jul 1989	289016	Transfer	
					RUNDEL	1 Jan 1991	_____	Transfer	
					GILLIS	~ 1994	101	Transfer	
						~ 1999	101	ltf	
120	F	18 Jun 1988	62	31	BATONROUG	18 Jun 1988	6070	Hatch	Captive Hatch
					COLUMBIA	18 May 1989	004977	Transfer	
					CALDWELL	12 Oct 2010	106745	Transfer	
121	F	~18 Jun 1988	62	31	BATONROUG	~18 Jun 1988	6089	Hatch	Captive Hatch
					WILMOTH	2 May 1989	_____	ltf	
122	F	26 Jun 1988	43	57	SANDIEGOZ	26 Jun 1988	388980	Hatch	Captive Hatch
					WALSRODE	20 Apr 1989	_____	ltf	
123	M	27 Jun 1988	43	57	SANDIEGOZ	27 Jun 1988	388985	Hatch	Captive Hatch
					WALSRODE	20 Apr 1989	_____	Transfer	
						~ 1997	_____	ltf	
124	?	18 Jul 1988	UNK	UNK	DALLAS	18 Jul 1988	886270	Hatch	Captive Hatch
						29 Jul 1988		Death	
					[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]				
125	F	18 Jul 1988	43	57	SANDIEGOZ	18 Jul 1988	488139	Hatch	Captive Hatch
					WALSRODE	20 Apr 1989	_____	Transfer	
						~ 1997	_____	ltf	
126	?	16 Sep 1988	58	81	DALLAS	16 Sep 1988	886295	Hatch	Captive Hatch
					MCCOY T	5 Dec 1988	_____	ltf	

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127	?	16 Sep 1988	58	81	DALLAS MCCOY T	16 Sep 1988 5 Dec 1988	886296 _____	Hatch ltf	Captive Hatch
128	?	15 Apr 1989	58	81	DALLAS	15 Apr 1989 5 May 1989	896515	Hatch Death	Captive Hatch
[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]									
129	?	15 Apr 1989	58	81	DALLAS	15 Apr 1989 5 May 1989	896516	Hatch Death	Captive Hatch
[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]									
130	M	20 Apr 1989	62	87	BATONROUG WILD WRLD GILLIS	20 Apr 1989 5 Dec 1989 9 Dec 1991 ~ 1994	6212 2640 _____	Hatch Transfer Transfer Death	Captive Hatch
[Death by: Unknown means]									
131	F	20 Apr 1989	62	87	BATONROUG ORNATUS CROFT L GILLIS	20 Apr 1989 21 Nov 1989 ~ 1 Dec 1998 ~ Jan 2001	6213 6213 _____ _____	Hatch Transfer Transfer ltf	Captive Hatch
132	?	6 Jun 1989	59	60	PHILADELP	6 Jun 1989 9 Jun 1989	203956	Hatch Death	Captive Hatch
[Death by: Other/Unknown † Rendered † Unknown (after necropsy)]									
133	F	7 Jun 1989	43	57	SANDIEGOZ VANDERHOO	7 Jun 1989 18 Dec 1989	389727 _____	Hatch ltf	Captive Hatch
134	?	16 Jun 1989	46	47	TULSA	16 Jun 1989 28 Jun 1989	9316	Hatch Death	Captive Hatch
[Death by: Unknown means]									
135	M	9 Jul 1989	43	57	SANDIEGOZ SEATTLE	9 Jul 1989 3 Nov 1989 18 Aug 2000	389955 891063 _____	Hatch Transfer Death	Captive Hatch
[Death by: Infection associated † Unknown † Digestive † Metabolism]									

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136	F	12 Jul 1989	43	57	SANDIEGOZ VANDERHOO	12 Jul 1989 18 Dec 1989	389973 _____	Hatch ltf	Captive Hatch
137	?	10 Aug 1989	46	47	TULSA	10 Aug 1989 21 Aug 1989	9427	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
138	?	3 Nov 1989	62	87	BATONROUG WILD WRLD	3 Nov 1989 5 Dec 1989 14 Mar 1990	6288 2641	Hatch Transfer Death	Captive Hatch
					[Death by: Unknown means]				
139	F	26 Jun 1986	59	60	DALLAS AURORA NEWMAN CL SPR AV	26 Jun 1986 20 Nov 1986 ~ Jun 1990 ~ Jul 1990 ~ 2000	864713 _____ _____ 75 _____	Hatch Transfer Transfer Transfer ltf	Captive Hatch
140	?	10 Mar 1990	62	87	BATONROUG	10 Mar 1990 26 Mar 1990	6407	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
141	?	10 Mar 1990	62	87	BATONROUG	10 Mar 1990 22 Mar 1990	6408	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
142	?	12 Apr 1991	52	49	SAN ANTON KARGER J	12 Apr 1991 24 Apr 1991 ~ Jun 1991	911424 _____	Hatch Transfer Death	Captive Hatch
					[Death by: Unknown means]				
143	?	13 Apr 1991	52	49	SAN ANTON KARGER J	13 Apr 1991 24 Apr 1991	910442 _____	Hatch ltf	Captive Hatch
144	?	25 Apr 1991	62	87	BATONROUG	25 Apr 1991 4 May 1991	6723	Hatch Death	Captive Hatch

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[Death by: Unknown means]									
145	?	27 Apr 1991	58	81	DALLAS	27 Apr 1991	917089	Hatch	Captive Hatch
						27 Apr 1991		Death	
[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]									
146	F	27 Apr 1991	58	81	DALLAS	27 Apr 1991	917090	Hatch	Captive Hatch
					MCCOY T	16 Mar 1992	_____	ltf	
147	F	29 Apr 1991	58	81	DALLAS	29 Apr 1991	917091	Hatch	Captive Hatch
					MCCOY T	16 Mar 1992	_____	ltf	
148	M	17 May 1991	64	48	LAKEBUENA	17 May 1991	210507	Hatch	Captive Hatch
					SHARPE M	~ Jul 1991	_____	Transfer	
					CROFT L	~ 1993	_____	Transfer	
					ST LOUIS	11 Jul 1996	960706	Transfer	
						23 Jul 2000		Death	
[Death by: Unknown means]									
149	F	18 May 1991	64	48	LAKEBUENA	18 May 1991	210509	Hatch	Captive Hatch
					SHARPE M	31 Mar 1993	_____	Transfer	
					CROFT L	~ 1993	_____	Transfer	
					GILLIS	~ 1996	108	ltf	
150	F	19 May 1991	64	48	LAKEBUENA	19 May 1991	210510	Hatch	Captive Hatch
					SHARPE M	31 Mar 1993	_____	ltf	
151	F	27 Sep 1991	64	48	LAKEBUENA	27 Sep 1991	210903	Hatch	Captive Hatch
					FRESNO	23 Apr 1992	6034	Transfer	
						18 Jul 1995		Death	
[Death by: Self-inflicted injuries † Unknown † Urinary † Trauma]									
152	F	28 Apr 1992	64	48	LAKEBUENA	28 Apr 1992	220413	Hatch	Captive Hatch
					SHARPE M	31 Mar 1993	_____	ltf	
153	M	28 Apr 1992	64	48	LAKEBUENA	28 Apr 1992	220412	Hatch	Captive Hatch
					SHARPE M	31 Mar 1993	_____	ltf	

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154	M	28 Apr 1992	64	48	LAKEBUENA SHARPE M	28 Apr 1992 31 Mar 1993	220411 _____	Hatch ltf	Captive Hatch
155	M	13 Jun 1992	135	83	SEATTLE CRAWFRD W	13 Jun 1992 3 Dec 1992	920370 _____	Hatch Transfer	Captive Hatch
156	F	13 Jun 1992	135	83	SEATTLE CRAWFRD W	13 Jun 1992 10 Jun 1993	920371 _____	Hatch Transfer	Captive Hatch
157	F	12 Jul 1992	95	88	KNOXVILLE DENVER	12 Jul 1992 22 Apr 1999	337 990191	Hatch Transfer	Captive Hatch
158	F	14 Jul 1992	95	88	KNOXVILLE WORLDBIRD	14 Jul 1992 5 Feb 1993 23 Mar 2005	338 338	Hatch Transfer Death	Captive Hatch
[Death by: Infection associated † Unknown † Reproductive † Mechanical abnormality]									
159	?	27 Jul 1992	58	81	DALLAS	27 Jul 1992 31 Jul 1992	927797	Hatch Death	Captive Hatch
[Death by: Other/Unknown † Unknown † Generalized † Unknown after necropsy]									
160	?	22 Sep 1992	52	49	SAN ANTON	22 Sep 1992 23 Sep 1992	920923	Hatch Death	Captive Hatch
[Death by: Unknown means]									
161	?	23 Sep 1992	52	49	SAN ANTON	23 Sep 1992 23 Sep 1992	920924	Hatch Death	Captive Hatch
[Death by: Unknown means]									
162	M	8 Mar 1993	52	49	SAN ANTON CL SPR AV	8 Mar 1993 28 Sep 1993 ~ 2000	930311 76 _____	Hatch Transfer ltf	Captive Hatch
163	M	17 Apr 1993	43	131	ORNATUS CROFT L PITRE	17 Apr 1993 ~ 1 Dec 1998 ~ Jan 2001	_____ _____ _____	Hatch Transfer Transfer	Captive Hatch

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					BOYLE	15 Jun 2001	_____	Transfer		
						~ 2003	_____	lft		
164	F	20 Jun 1993	64	48	LAKEBUENA	20 Jun 1993	230658	Hatch	Captive	Hatch
					CINCINNAT	14 Jul 1993	293129	Transfer		
					CRAWFRD W	19 Jul 1993	_____	Transfer		
					KNOXVILLE	15 May 2003	2656	Transfer		
165	?	22 Jun 1993	64	48	LAKEBUENA	22 Jun 1993	230661	Hatch	Captive	Hatch
						25 Jun 1993		Death		
					[Death by: Other/Unknown † Bury † Unknown (after necropsy)]					
166	?	23 Jun 1993	64	48	LAKEBUENA	23 Jun 1993	230663	Hatch	Captive	Hatch
					CINCINNAT	14 Jul 1993	293130	Transfer		
167	?	4 Sep 1993	64	48	LAKEBUENA	4 Sep 1993	230905	Hatch	Captive	Hatch
					CINCINNAT	26 Oct 1993	293290	Transfer		
					CRAWFRD W	27 Oct 1993	_____	Transfer		
168	?	4 Sep 1993	64	48	LAKEBUENA	4 Sep 1993	230906	Hatch	Captive	Hatch
						10 Sep 1993		Death		
					[Death by: Other/Unknown † Bury † Unknown (after necropsy)]					
169	F	~ 1993	UNK	UNK	BATONROUG	~ 1993	_____	Hatch	Captive	Hatch
					SLAUGHTER	10 Sep 1996	_____	Transfer		
					DREHER PA	10 Sep 1996	96170	Transfer		
						16 Jan 1997		Death		
					[Death by: Injury from predator † Unknown † No necropsy planned]					
170	M	~ 1993	63	60	BATONROUG	~ 1993	_____	Hatch	Captive	Hatch
					SLAUGHTER	10 Sep 1996	_____	Transfer		
					DREHER PA	10 Sep 1996	96169	Transfer		
					WORLDBIRD	7 Jan 1998	980002	Transfer		
					CALDWELL	4 Jun 2008	106130	Transfer		
						4 Jul 2008		Death		
					[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]					

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171	F	~ Jan 1994	193	119	GILLIS CROFT L ST LOUIS	~ Jan 1994 _____ ~ 1995 _____ 11 Jul 1996 960707	Hatch Transfer Transfer	Captive Hatch
						8 Nov 2000	Death	
					[Death by: Anesth/Restraint assoc † Unknown † Unknown (after necropsy)]			
172	F	~ Jun 1998	194	196	GILLIS	~ Jun 1998 _____	Hatch ltf	Captive Hatch
173	F	~ 1994	43	131	ORNATUS CROFT L	~ 1994 _____ 2 Feb 1995 _____ 3 Feb 1995	Hatch Transfer Death	Captive Hatch
					[Death by: Unknown means]			
174	M	23 Mar 1994	162	139	CL SPR AV COLUMBIA	23 Mar 1994 _____ 6 Aug 1998 6630 27 Mar 2008	Hatch Transfer Death	Captive Hatch
					[Death by: Euthanasia (medical) † Unknown † Generalized † Toxicity]			
175	M	24 Mar 1994	162	139	CL SPR AV NZP-WASH CL SPR AV	24 Mar 1994 _____ 8 Jun 1995 213649 8 Jul 1997 _____	Hatch Transfer ltf	Captive Hatch
176	M	28 Apr 1994	64	48	LAKEBUENA ORNATUS NZP-WASH	28 Apr 1994 240419 11 Oct 1994 240419 8 Nov 1995 213705	Hatch Transfer Transfer	Captive Hatch
177	?	29 Apr 1994	64	48	LAKEBUENA	29 Apr 1994 240421 5 May 1994	Hatch Death	Captive Hatch
					[Death by: Other/Unknown † Bury † Necropsy planned later † Unknown after necropsy]			
178	F	29 Jul 1994	193	119	GILLIS FRESNO NZP-WASH	29 Jul 1994 _____ 29 Oct 1995 950222 24 Oct 2006 215590 9 Dec 2010	Hatch Transfer Transfer Death	Captive Hatch
					[Death by: Infection associated † Unknown † Musculoskeletal † Unknown after necropsy]			
179	?	8 Apr 1995	43	131	ORNATUS	8 Apr 1995 _____	Hatch	Captive Hatch

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					CARVALHO	~ May 1995	_____	ltf	
180	M	9 Jun 1995	95	88	KNOXVILLE ORNATUS	9 Jun 1995 8 May 1996 15 Mar 1998	542 542	Hatch Transfer Death	Captive Hatch
					[Death by: Unknown means]				
181	?	17 Jun 1995	64	48	LAKEBUENA WORLDBIRD	17 Jun 1995 24 Aug 1999 ~ 6 Sep 2000	250630 990020	Hatch Transfer Death	Captive Hatch
					[Death by: Unknown means]				
182	F	19 Jun 1995	64	48	LAKEBUENA WORLDBIRD CALDWELL LOWRY	19 Jun 1995 6 Oct 1995 25 Sep 1997 1 Nov 2005	250635 950610 104145 205357	Hatch Transfer Transfer Transfer	Captive Hatch
183	F	~ 1996	UNK	UNK	CROFT L ORNATUS	~ 1996 23 Aug 1996 5 Apr 1997	_____	Hatch Transfer Death	Captive Hatch
					[Death by: Unknown means]				
184	?	~ 1996	43	131	ORNATUS CRAWFRD W	~ 1996 14 Oct 1996 9 Jan 1997	_____	Hatch Transfer Death	Captive Hatch
					[Death by: Euthanasia (medical) † Unknown † Musculoskeletal † Trauma]				
185	F	14 May 1996	162	139	CL SPR AV ORNATUS CROFT L PITRE BOYLE TORONTO	14 May 1996 7 Nov 1996 ~ 1 Dec 1998 ~ Jan 2001 15 Jun 2001 21 May 2004	_____	Hatch Transfer Transfer Transfer Transfer Transfer	Captive Hatch
186	M	7 Jun 1996	148	171	CROFT L BATONROUG DISNEY AK	7 Jun 1996 21 Aug 1996 25 Sep 1997	_____	Hatch Transfer Transfer	Captive Hatch

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					METROZOO	7 May 2002	B20046	Transfer	
					LOSANGELE	14 Jun 2005	991063	Transfer	
187	?	12 Jun 1996	64	48	LAKEBUENA	12 Jun 1996	260609	Hatch	Captive Hatch
						14 Jun 1996		Death	
			[Death by: Injury from exhibit mate † Unknown † No necropsy planned]						
188	?	16 Jun 1996	52	49	SAN ANTON	16 Jun 1996	960674	Hatch	Captive Hatch
						19 Aug 1996		Death	
			[Death by: Unknown means]						
189	M	4 Jul 1996	95	88	KNOXVILLE	4 Jul 1996	632	Hatch	Captive Hatch
					LAKEBUENA	6 Mar 1997	270314	Transfer	
					WORLDBIRD	24 Aug 1999	990021	Transfer	
190	M	29 May 1997	162	139	CL SPR AV	29 May 1997	_____	Hatch	Captive Hatch
					FOSKY	~15 Sep 1997	_____	ltf	
191	F	30 May 1997	162	139	CL SPR AV	30 May 1997	_____	Hatch	Captive Hatch
					NZP-WASH	25 Sep 1997	213963	Transfer	
					SCOT NECK	~26 Oct 2006	_____	Transfer	
192	M	28 Jan 1998	162	139	CL SPR AV	28 Jan 1998	_____	Hatch	Captive Hatch
					SEDGWICK	24 Jun 1999	8965	Transfer	
193	M	~ 1980	21	22	GLENDALE	~ 1980	_____	Hatch	Captive Hatch
					DIAZ	~ 1981	_____	Transfer	
					GILLIS	~ 1992	102	Transfer	
						~ 1999	_____	ltf	
194	M	~ 1974	WILD	WILD	S.AMERICA	~ 1974	NONE	Capture	Wild Hatch
					CROFT L	~ 1975	_____	Transfer	
					GILLIS	~ 1995	107	Transfer	
						~ 1999	107	ltf	
195	M	11 Oct 1997	194	196	GILLIS	11 Oct 1997	109	Hatch ltf	Captive Hatch

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196	F	~ 1979	WILD	WILD	S.AMERICA BELLBIRD GUNDERSON GILLIS CROFT L GILLIS	~ 1980 ~ 1980 ~ 1981 ~ Jun 1995 ~ Sep 1995 ~ 1996 ~ 1999	NONE _____ _____ 106 _____ 106 106	Capture Transfer Transfer Transfer Transfer Transfer ltf	Wild Hatch
197	M	~ May 1996	148	171	CROFT L GILLIS	~ May 1996 ~ Jan 2001	_____ _____	Hatch ltf	Captive Hatch
198	?	11 Oct 1997	194	196	GILLIS	11 Oct 1997 11 Oct 1997	_____ _____	Hatch Death	Captive Hatch
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]									
199	?	28 Jun 1998	176	191	NZP-WASH	28 Jun 1998 30 Jun 1998	214053 _____	Hatch Death	Captive Hatch
[Death by: Environ/Behav conditions † Unknown † No necropsy planned]									
200	?	28 Jun 1998	176	191	NZP-WASH CRAWFRD W	28 Jun 1998 19 Nov 1998	214502 _____	Hatch Transfer	Captive Hatch
203	?	23 May 1999	176	191	NZP-WASH CRAWFRD W	23 May 1999 27 Oct 1999 ~ 2000	214318 _____ _____	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]									
204	F	24 May 1999	176	191	NZP-WASH CRAWFRD W QUEBEC GRANBY DENVER	24 May 1999 27 Oct 1999 4 Oct 2002 26 Oct 2006 22 Jun 2007	214319 _____ A25004 B99046 A07277	Hatch Transfer Transfer Transfer Transfer	Captive Hatch
205	F	7 Oct 1998	148	171	ST LOUIS ROCHESTER KNOXVILLE	7 Oct 1998 8 Apr 1999 11 Nov 2002	981084 104865 2543	Hatch Transfer Transfer	Captive Hatch

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206	M	8 Oct 1998	148	171	ST LOUIS WILD WRLD	8 Oct 1998 3 Mar 1999	982001 6119	Hatch Transfer	Captive Hatch
207	F	26 Jul 1999	148	171	ST LOUIS ORLANDO	26 Jul 1999 6 Jan 2000	990781 RLS250	Hatch Transfer	Captive Hatch
208	?	~ Jan 1999	162	139	CHOULES	5 Mar 1999 ~ Jun 1999	_____	Transfer Death	Captive Hatch
					[Death by: Unknown means] CL SPR AV	29 Jul 2012	_____	Hatch	
209	?	26 Jun 1999	92	182	CALDWELL	26 Jun 1999 27 Jun 1999	104401	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
210	?	26 Jun 1999	92	182	CALDWELL	26 Jun 1999 28 Jun 1999	104400	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
211	?	~ Jan 1994	71	69	LANNOM	~ Jan 1994 ~ 1994	_____	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
212	?	~ Jun 1998	194	196	GILLIS	~ Jun 1998 ~ Jun 1998	_____	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
213	M	~ Jun 1998	193	119	GILLIS	~ Jun 1998	_____	Hatch ltf	Captive Hatch
214	?	25 Apr 2000	176	191	NZP-WASH	25 Apr 2000 5 May 2000	214482	Hatch Death	Captive Hatch
					[Death by: Environ/Behav conditions † Unknown † No necropsy planned]				
215	?	27 Apr 2000	176	191	NZP-WASH	27 Apr 2000 2 May 2000	214483	Hatch Death	Captive Hatch
					[Death by: Environ/Behav conditions † Unknown † Unknown (after necropsy) † Mechanical abnormality]				

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216	M	15 Jun 2000	176	191	NZP-WASH ALEXANDRI	15 Jun 2000 16 Nov 2000 ~ Jun 2004	214563 AV0019	Hatch Transfer Death	Captive Hatch
[Death by: Unknown means]									
217	?	19 Jun 2000	176	191	NZP-WASH	19 Jun 2000 27 Jun 2000	214567	Hatch Death	Captive Hatch
[Death by: Environ/Behav conditions † Unknown † No necropsy planned]									
218	M	29 May 2001	176	191	NZP-WASH CL SPR AV DURHAM AV BENNETT R METROZOO BENNETT R	29 May 2001 16 Nov 2001 16 Nov 2001 13 Feb 2002 17 Feb 2003 ~ Jun 2004	214786 _____ 260123 _____ B30023 _____	Hatch Transfer Transfer Transfer Transfer ltf	Captive Hatch
219	?	14 Oct 1999	148	171	ST LOUIS ORLANDO	14 Oct 1999 6 Jan 2000 25 Sep 2003	991015 RLS251	Hatch Transfer Death	Captive Hatch
[Death by: Infection associated † Unknown † Urinary † Toxicity]									
220	?	15 Aug 2001	163	185	BOYLE	15 Aug 2001	60	Hatch ltf	Captive Hatch
221	M	10 Oct 2001	163	185	BOYLE QUEBEC TORONTO	10 Oct 2001 20 Apr 2002 ~ Jun 2008	61 A25002 41434	Hatch Transfer Transfer	Captive Hatch
222	M	12 Oct 2001	163	185	BOYLE QUEBEC	12 Oct 2001 20 Apr 2002 9 Apr 2003	63 A25003	Hatch Transfer Death	Captive Hatch
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]									
223	F	~ 1970	WILD	WILD	S.AMERICA CHASE B COLUMBIA	~ 1974 ~ 1974 10 May 1974 9 Feb 1989	NONE _____ SJ0281	Capture Transfer Transfer Death	Wild Hatch

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[Death by: Unknown means]									
225	F	28 Apr 2002	176	191	NZP-WASH JACKSONVL	28 Apr 2002 12 Nov 2002	214880 602376	Hatch Transfer	Captive Hatch
226	F	28 Apr 2002	176	191	NZP-WASH METROZOO LOSANGELE	28 Apr 2002 14 Nov 2002 14 Jun 2005	214881 B20257 991064	Hatch Transfer Transfer	Captive Hatch
227	M	~ Jun 1999	228	UNK	WALSRODE QUEBEC GRANBY ROCKTON	~ Jun 1999 11 Apr 2002 26 Oct 2006 25 Aug 2010	 A25001 B99045 	Hatch Transfer Transfer Transfer	Captive Hatch
228	M	~ Jun 1996	123	125	WALSRODE	~ Jun 1996 ~15 May 2000	C7626	Hatch Death	Captive Hatch
[Death by: Unknown means]									
229	?	25 May 1988	95	88	KNOXVILLE	25 May 1988 6 Jun 1988	227	Hatch Death	Captive Hatch
[Death by: Euthanasia (medical) † Given to an institution: UTCVM † Unknown (after necropsy)]									
230	F	8 May 1990	95	88	KNOXVILLE	8 May 1990 28 Aug 1990	228	Hatch Death	Captive Hatch
[Death by: Other/Unknown † Given to an institution: UTCVM † Unknown (after necropsy)]									
231	?	~ 1971	WILD	WILD	S.AMERICA LOSANGELE	~ Jan 1972 22 May 1972 23 May 1973	NONE 06763	Capture Transfer Death	Wild Hatch
[Death by: Unknown means]									
232	M	~ 1987	UNK	UNK	LAVAL QUEBEC	~ 1988 12 Feb 1988 3 Jul 1992	 895006	Transfer Transfer Death	Unk HatchType
[Death by: Other/Unknown † Incinerate † Necropsy planned later † Unknown after necropsy]									
233	F	~ 1987	UNK	UNK	LAVAL	~ 1988	 	Transfer	Unk HatchType

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					QUEBEC	12 Feb 1988	_____	Transfer	
						~ 1990		Death	
					[Death by: Unknown means]				
234	M	15 May 2002	216	MULT	ALEXANDRI	15 May 2002	AV0072	Hatch	Captive Hatch
						26 Jun 2002		Death	
					[Death by: Unknown means]				
235	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002	65	Hatch	Captive Hatch
						14 Apr 2002		Death	
					[Death by: Unknown means]				
236	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002	66	Hatch	Captive Hatch
						3 May 2002		Death	
					[Death by: Unknown means]				
237	?	7 May 2002	163	185	BOYLE	7 May 2002	67	Hatch	Captive Hatch
						2 Jun 2002		Death	
					[Death by: Unknown means]				
238	?	8 May 2002	163	185	BOYLE	8 May 2002	68	Hatch	Captive Hatch
						10 May 2002		Death	
					[Death by: Unknown means]				
239	M	13 May 2003	176	191	NZP-WASH	13 May 2003	215078	Hatch	Captive Hatch
					AUDUBON	6 Nov 2003	101104	Transfer	
					ST LOUIS	21 Mar 2007	105679	Transfer	
240	F	19 Aug 2003	186	226	METROZOO	19 Aug 2003	B30232	Hatch	Captive Hatch
					DREHER PA	11 Feb 2004	204011	Transfer	
241	?	19 Aug 2003	186	226	METROZOO	19 Aug 2003	B30233	Hatch	Captive Hatch
						22 Aug 2003		Death	
					[Death by: Unknown means]				
242	F	16 Oct 2003	192	88	SEDGWICK	16 Oct 2003	10649	Hatch	Captive Hatch
					WILD WRLD	8 Apr 2004	7425	Transfer	

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243	?	16 Apr 2003	86	81	DALLAS	16 Apr 2003 22 Apr 2004	04F035	Hatch Death	Captive Hatch
[Death by: Environ/Behav conditions † Unknown † No necropsy planned]									
244	?	16 Apr 2004	86	81	DALLAS	16 Apr 2004 22 Apr 2004	04F036	Hatch Death	Captive Hatch
[Death by: Environ/Behav conditions † Unknown † No necropsy planned]									
246	M	6 May 2004	174	120	COLUMBIA FRESNO	6 May 2004 6 Oct 2004 26 Oct 2005	7984 240097	Hatch Transfer Death	Captive Hatch
[Death by: Euthanasia (medical) † Unknown † Nervous † Trauma]									
248	M	~ 8 May 2004	176	191	NZP-WASH TACOMA	~ 8 May 2004 1 Dec 2004 ~20 Feb 2005	215273 T04A16	Hatch Transfer Death	Captive Hatch
[Death by: Self-inflicted injuries † Unknown † Generalized † Trauma]									
249	M	13 Jul 2004	174	120	COLUMBIA LUFKIN	13 Jul 2004 29 Mar 2005	8075 _____	Hatch Transfer	Captive Hatch
250	?	23 Aug 2004	186	226	METROZOO SCOT NECK	23 Aug 2004 ~ Mar 2005	B40286 _____	Hatch Transfer	Captive Hatch
251	?	25 Aug 2004	186	226	METROZOO	25 Aug 2004 26 Aug 2004	B40289	Hatch Death	Captive Hatch
[Death by: Injury from exhibit mate † Unknown † Unknown (after necropsy) † Trauma]									
252	M	16 May 2005	86	81	DALLAS	16 May 2005 12 Sep 2005	05F693	Hatch Death	Captive Hatch
[Death by: Euthanasia (medical) † Unknown † Generalized † Trauma]									
253	M	16 May 2005	86	81	DALLAS	16 May 2005 29 Aug 2005	05F694	Hatch Death	Captive Hatch
[Death by: Environ/Behav conditions † Unknown † Digestive † Trauma]									

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254	?	17 May 2005	86	81	DALLAS	17 May 2005 20 May 2005	05F695	Hatch Death	Captive Hatch
[Death by: Unknown means]									
255	F	22 Jul 2005	246	178	FRESNO TACOMA	22 Jul 2005 22 Jul 2005	250068 T05A02	Hatch Transfer	Captive Hatch
256	M	16 Aug 2005	95	164	KNOXVILLE CRAWFRD W EDMONDS M	16 Aug 2005 10 Oct 2007 ~ 2009	3147 3147	Hatch Transfer Transfer	Captive Hatch
257	M	18 Aug 2005	95	164	KNOXVILLE CRAWFRD W NASHVILLE	18 Aug 2005 10 Oct 2007 ~ 2009	3148 3148	Hatch Transfer Transfer	Captive Hatch
258	M	22 Sep 2005	64	242	WILD WRLD	22 Sep 2005	7683	Hatch	Captive Hatch
259	M	27 Apr 2005	64	242	WILD WRLD	27 Apr 2005 27 Jan 2006	_____	Hatch Death	Captive Hatch
[Death by: Infection associated † Unknown † Urinary † Toxicity]									
260	F	8 Aug 2005	64	242	WILD WRLD	8 Aug 2005 27 Jan 2006	7681	Hatch Death	Captive Hatch
[Death by: Unknown means]									
261	M	20 Sep 2005	64	242	WILD WRLD	20 Sep 2005	7682	Hatch	Captive Hatch
262	F	6 May 2006	86	81	DALLAS GRANBY	6 May 2006 15 May 2007 19 Dec 2009	06G569 B06005	Hatch Transfer Death	Captive Hatch
[Death by: Infection associated † Unknown † Cardiovascular † Mechanical abnormality]									
263	?	7 May 2006	86	81	DALLAS	7 May 2006 8 May 2006	06G570	Hatch Death	Captive Hatch
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]									
264	F	17 Jul 2006	174	120	COLUMBIA	17 Jul 2006	9348	Hatch	Captive Hatch

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						28 Mar 2011		Death	
[Death by: Environ/Behav conditions † Unknown † Reproductive † Mechanical abnormality]									
265	?	28 May 2006	92	182	LOWRY OMAHA COAL VAL	28 May 2006 16 Nov 2006 16 Jan 2010	205488 16778 _____	Hatch Transfer Transfer	Captive Hatch
266	F	~ 1993	UNK	UNK	GILLIS SAFARI W	~ 1993 12 Jul 1994 18 Jul 1996	_____ 29499	Hatch Transfer Death	Captive Hatch
[Death by: Environ/Behav conditions † Unknown † No necropsy planned]									
267	?	6 Jun 2007	176	178	NZP-WASH	6 Jun 2007 7 Jun 2007	215625	Hatch Death	Captive Hatch
[Death by: Unknown means]									
268	?	7 Jun 2007	176	178	NZP-WASH	7 Jun 2007 7 Jun 2007	215626	Hatch Death	Captive Hatch
[Death by: Unknown means]									
269	M	19 Jul 2007	176	178	NZP-WASH NY BRONX CALDWELL	19 Jul 2007 28 Nov 2007 6 Nov 2008	215650 B07120 106250	Hatch Transfer Transfer	Captive Hatch
270	M	4 Aug 2007	174	120	COLUMBIA KNOXVILLE	4 Aug 2007 29 Dec 2009	9782 _____	Hatch Transfer	Captive Hatch
271	M	4 Aug 2007	174	120	COLUMBIA SAN ANTON	4 Aug 2007 7 Jan 2008	9783 J08008	Hatch Transfer	Captive Hatch
272	F	20 Jul 2007	176	178	NZP-WASH SAN ANTON	20 Jul 2007 2 Apr 2008	215651 A08003	Hatch Transfer	Captive Hatch
273	M	16 May 2007	92	182	LOWRY PITTS CA	16 May 2007 27 Jan 2008	205642 7564	Hatch Transfer	Captive Hatch
274	F	11 Apr 2007	64	242	WILD WRLD	11 Apr 2007	8284	Hatch	Captive Hatch

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					VADEN M	26 May 2009	_____	ltf		
275	M	12 Apr 2007	64	242	WILD WRLD VADEN M	12 Apr 2007 26 May 2009	8285 _____	Hatch ltf	Captive Hatch	
277	F	17 Jun 2007	95	164	KNOXVILLE	17 Jun 2007 16 Aug 2007	3509	Hatch Death	Captive Hatch	
					[Death by: Euthanasia (medical) † Given to an institution: UTZP KNOX † Generalized † Unknown after necropsy]					
278	F	~ 2006	UNK	UNK	PRIVATE WORLDBIRD TRACY AV	~ Feb 2007 26 Apr 2007 14 Sep 2009	_____ M07035 2009	Transfer Transfer Transfer	Unk HatchType	
279	M	~ 2006	UNK	UNK	PRIVATE WORLDBIRD TRACY AV	~ Feb 2007 26 Apr 2007 14 Sep 2009	_____ M07036 2008	Transfer Transfer Transfer	Unk HatchType	
280	M	~ 2006	UNK	UNK	PRIVATE WORLDBIRD JNGLARY F	~ Feb 2007 28 Jun 2007 27 Jul 2009 28 Nov 2011	_____ M07041 A6B021	Transfer Transfer Transfer Death	Unk HatchType	
					[Death by: Infection associated † Unknown † Digestive † Mechanical abnormality]					
281	F	~ 2006	UNK	UNK	PRIVATE WORLDBIRD JNGLARY F WORLDBIRD	~ Feb 2007 28 Jun 2007 27 Jul 2009 2 May 2012	_____ M07042 A6B022 _____	Transfer Transfer Transfer Transfer	Unk HatchType	
282	F	23 Oct 2007	279	278	WORLDBIRD	23 Oct 2007 31 May 2010	M07047	Hatch Death	Captive Hatch	
					[Death by: Unknown means]					
283	?	~ Jun 2007	155	156	CRAWFRD W	~ Jun 2007 ~ Jun 2007	_____ _____	Hatch Death	Captive Hatch	
					[Death by: Injury from predator † Unknown † Generalized † Trauma]					

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284	M	27 Apr 2008	64	242	WILD WRLD	27 Apr 2008	7640	Hatch	Captive Hatch
285	?	21 Apr 2008	64	242	WILD WRLD KRATHWOHL	21 Apr 2008 10 Dec 2009	8605 _____	Hatch ltf	Captive Hatch
286	M	14 May 2008	280	281	WORLDBIRD ORLANDO	14 May 2008 17 Oct 2008	M08001 RLS252	Hatch Transfer	Captive Hatch
287	F	30 May 2008	279	278	WORLDBIRD	30 May 2008	M08002	Hatch	Captive Hatch
288	M	28 Aug 2008	192	88	SEDGWICK METROZOO	28 Aug 2008 13 Oct 2009	12243 B90314	Hatch Transfer	Captive Hatch
289	M	28 Aug 2008	192	88	SEDGWICK COLUMBIA	28 Aug 2008 19 Nov 2009	12246 10633	Hatch Transfer	Captive Hatch
290	?	16 May 2008	86	81	DALLAS	16 May 2008 18 May 2008	08J046	Hatch Death	Captive Hatch
					[Death by: Injury from predator † Unknown † Unknown (after necropsy)]				
291	?	9 Oct 2008	86	81	DALLAS	9 Oct 2008 10 Oct 2008	08J515	Hatch Death	Captive Hatch
					[Death by: Unknown means]				
292	?	11 Oct 2008	86	81	DALLAS	11 Oct 2008 11 Oct 2008	08J524	Hatch Death	Captive Hatch
					[Death by: Injury from predator † Unknown † Unknown (after necropsy)]				
293	M	19 Apr 2008	92	182	LOWRY	19 Apr 2008	205899	Hatch	Captive Hatch
294	F	17 Oct 2008	279	278	WORLDBIRD NASHVILLE	17 Oct 2008 8 Sep 2010	M08016 3345	Hatch Transfer	Captive Hatch
295	?	14 Apr 2009	279	278	WORLDBIRD	14 Apr 2009 12 Jan 2011	M09010	Hatch Death	Captive Hatch
					[Death by: Unknown means]				

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296	?	18 Apr 2009	64	242	WILD WRLD	18 Apr 2009	8860	Hatch	Captive Hatch
297	?	8 Jun 2009	64	242	WILD WRLD	8 Jun 2009	8902	Hatch	Captive Hatch
298	F	3 Sep 2009	86	81	DALLAS PHOENIX COLUMBIA	3 Sep 2009 12 May 2010 6 Dec 2011 8 Dec 2011	09K004 11422 _____	Hatch Transfer Transfer Death	Captive Hatch
[Death by: Unknown means]									
299	M	~ 1967	WILD	WILD	S.AMERICA CHASE B NZP-WASH	~ 1968 ~ 1968 5 Sep 1968 10 Mar 1970	NONE _____ 33376	Capture Transfer Transfer Death	Wild Hatch
[Death by: Unknown means]									
300	?	22 Apr 2008	64	242	WILD WRLD	22 Apr 2008 8 Jul 2008	8606	Hatch Death	Captive Hatch
[Death by: Unknown means]									
301	?	~ 7 Sep 2010	286	207	ORLANDO	7 Sep 2010		Death	Unk HatchType
[Death by: Dead in shell † Unknown † No necropsy planned]									
302	?	~ 7 Sep 2010	286	207	ORLANDO	~ 7 Sep 2010		Death	Unk HatchType
[Death by: Injury from exhibit mate † Unknown † Generalized † Trauma]									
303	M	30 Apr 2012	286	207	ORLANDO	30 Apr 2012	RLS255	Hatch	Captive Hatch
304	M	~ 2009	UNK	UNK	UNKNOWN GREATBEND	~ 2009 ~ 2011	NONE 209001	Hatch Transfer	Captive Hatch
305	?	6 Jun 2012	92	182	LOWRY JNGLARY F	6 Jun 2012 6 Dec 2012	206430 UNK	Hatch Transfer	Captive Hatch
306	?	6 Jun 2012	92	182	LOWRY	6 Jun 2012 11 Dec 2012	206431	Hatch Death	Captive Hatch

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

307	?	12 Jun 2012	155	156	CRAWFRD W	12 Jun 2012	_____	Hatch	Captive Hatch
308	F	27 Jul 2012	286	207	ORLANDO	27 Jul 2012	RLS256	Hatch	Captive Hatch
309	M	29 Jul 2012	286	207	ORLANDO	29 Jul 2012	RLS257	Hatch	Captive Hatch

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TOTALS: 102.94.107 (303)

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RED-LEGGED SERIEMA ETHOGRAM

From: Padget, Ami Elizabeth, \Structure and possible function of vocalizations of captive red-legged seriemas (*Cariama cristata*). " Master's Thesis, University of Tennessee, 2010. http://trace.tennessee.edu/utk_gradthes/651

A red-legged seriema ethogram was developed from naturalistic behavior observations of 22 captive seriemas. Ethogram behaviors have been grouped into 6 categories, including locomotion, functional, resting/ stationary, maintenance, reproductive, and vocalizations and include a description of 47 basic behaviors and vocalizations.

Locomotion

Walking: Alternating movement of legs at a steady rate.

Running : Alternating movement of legs at a rapid rate.

Flying : Extension of wings, with flapping, with no body part touching substrate.

Jumping : Legs are bent, then extended, and both feet leave the ground simultaneously without wing flapping.

Chasing : Running while directing body toward an animate object.

Hock Walking : Bird has tarsi on the ground and the tibias are vertical, with belly not touching the ground and from this position moves forward using legs.

Pacing : Walking back and forth repeatedly along the same track.

Kicking : Jump and thrust both legs forward.

Startle : Tensing of the body followed by a jump and/or wing flapping.

Functional

Prey Capture : Chasing flying or crawling insects or small vertebrates and detaining them with beak.

Feeding : Pecking, using beak, to consume foliage or may repeatedly drop and shake pieces of food over and over, followed by tearing food, while using beak to tear and feet to hold and then consuming by tilting head back to swallow food.

Digging for Prey : Using beak to burrow into substrate to find and obtain prey.

Allofeeding : Adults bring food to each other and pass and forth between beaks several times before being consumed.

Whack Food or Objects : Throwing food or inanimate objects on ground repeatedly using beak to hold and neck to thrust.

Object Pass : Delivering inanimate items back and forth between individuals using beaks.

Drinking : Consuming water, while standing, using a repeated scooping motion with beak with head tilted back to swallow.

Foraging : Scanning the ground for food while walking.

Pecking : Using beak to investigate substrate, enclosure, another bird, plants, prey, or other objects.

Bill Wiping : Individuals rub the sides of their beak on the ground or other objects.

Defecation : Excreting feces from a standing position with tail feathers raised away from the cloaca.

Looking : Attenuate head and eyes toward observer or a moving object located outside enclosure.

Skyward Looking : Extending neck and using one or both eyes to look upwards. If using only one eye, the head is tilted.

Listening : Attenuate head and extend neck in the direction of a sound.

Resting/ Stationary

Standing Perch : Body is positioned in a stationary stance unipedally or bipedally on an elevated object.

Lying Perch : Body is positioned in a lying position on an elevated object.

Hock Sitting : Sitting position, in which the bird has tarsi on the ground and the tibias are vertical, with belly not touching the ground.

Lying : Legs folded and tucked under body with belly touching the ground.

Head Tuck :

Standing with the head tucked against the back of the neck with body feathers fluffed.

Maintenance

Scratching : Using the talons on the feet to rub a body area.

Stretching : Leg and wing on the same side of the body are extended backward at the simultaneously and may include the upward extension of wings.

Body Fluffing : Feathers on the body, neck, and wings are erected for a few seconds.

Ruffling : Shaking the body in a wavelike manner, from head to tail.

Preening : Grooming feathers using beak to peck, pull, and clean feathers, with or without the use of the preening gland, which is located at the base of the tail.

Dust Bathing : Lying on substrate, usually dirt or sand, to rubs body, wings, head, and neck on ground and may also roll onto the side of the body.

Sun Bathing Lying : Lying on belly in direct sunlight with wings extended and spread on the ground, while lying very still.

Sun Bathing Standing : Standing in direct sunlight with wings dropped to the sides to expose the back of the body.

Bill Gaping : Beak is opened wide and then shut.

Bill Open : The beak is held partially open while standing or walking.

Coughing/ Sneezing : Air is expelled from the lungs noisily and suddenly, voluntarily or involuntarily.

Choke : Beak is opened wide and held opened while extending neck forward. Debris may or may not be expelled.

Reproductive

Copulation : Male climbs onto the back of the standing female to allow transfer of sperm.

Nest Building : Collecting of leaves and sticks by a male/ female pair and consolidating them in a bush or tree.

Incubation : Male and female parents alternate positioning their bodies over the nest, in a lying or standing position.

Vocalizations

Purr : Very quiet, low frequency, short-range sound

Single note : Short, loud, vocalization that consists of a "whoop" sound.

Primary call : Loud vocalization given from a stationary, standing position that begins with U notes and increases in intensity and structure through the climax, involving L and T notes. The beak is pointed upward, while the head and neck move up and down. Head may touch the back of the body.

Hiss : Short-range vocalization directed at non-threatening intruders or nuisances