

# 2004

## NORTH AMERICAN STUDBOOK

for the

# RED-LEGGED

# SERIEMA

*(Cariama cristata)*

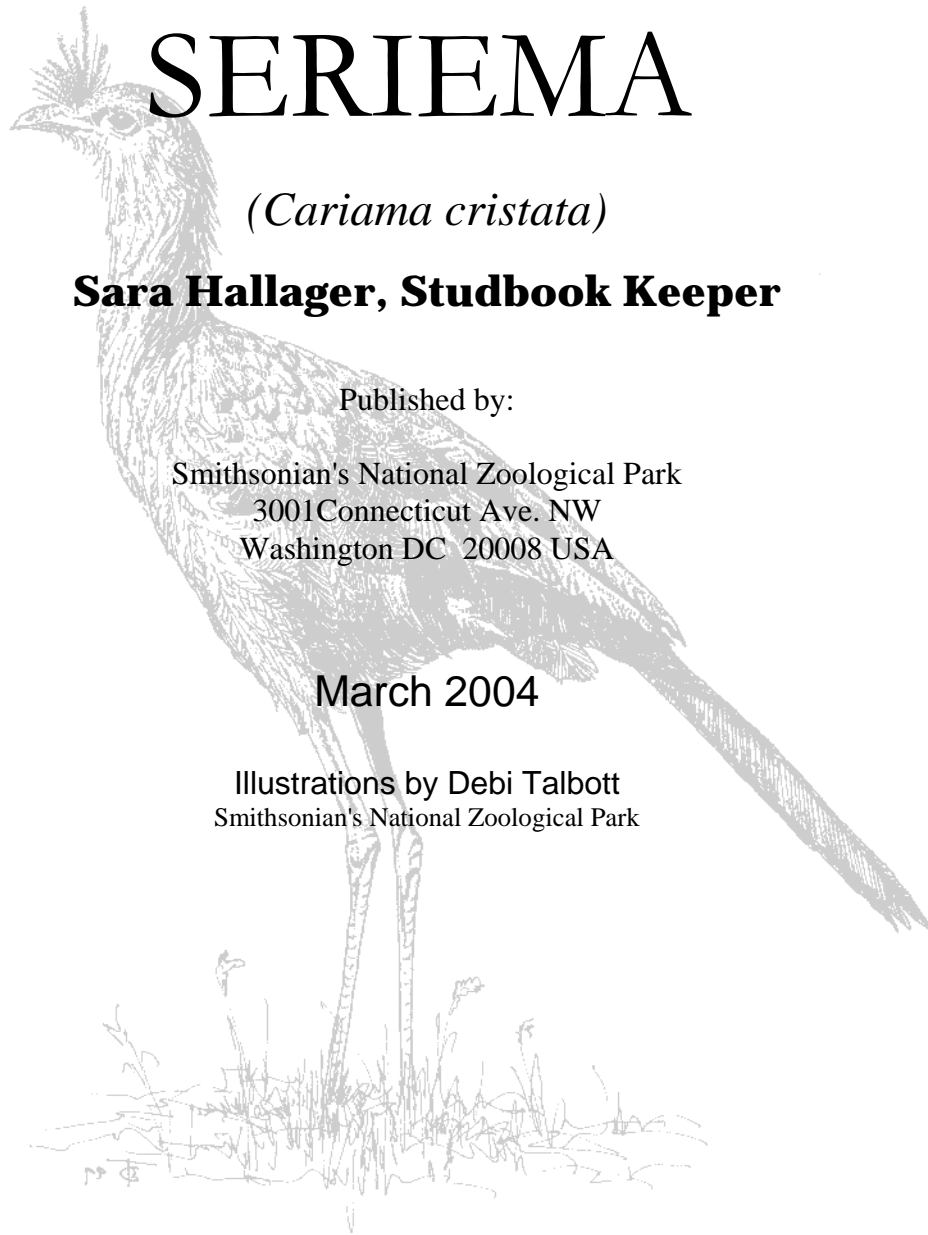
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## INTRODUCTION

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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 fourth edition of this studbook. Data is current through 31 March 2004. The Historical Studbook records 239 birds maintained in zoos and private facilities in North America from 1891 through March 2004. The Living Studbook contains 44 (19.19.6) individuals in 23 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.

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## STUDBOOK FORMAT

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The red-legged seriema studbook uses the Single Population Animal Record Keeping System (SPARKS) program, version 1.4.2.

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*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. A 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, 'ltf' (lost to follow up) will appear to the right of the last known location.

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

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

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

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## NATURAL HISTORY

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### RANGE & HABITAT

The red-legged seriema (*Cariama cristata*) 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 wher 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.

### DESCRIPTION & HABITS

Male and female red-legged seriemas look alike, with males being slightly larger than females. Birds weigh approximately 2.5-3.0 kg, and stand about 90 cm. Their most striking feature is their crest, which is 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. They are one of the few birds with eyelashes. Seriemas have loose plumage, especially on the neck and underparts. Red-legged seriemas are mainly gray in coloration, with shades of brown, except the abdomen, which is white. The wing and tail feathers are banded black and white. The skin surrounding the eye is blue, and the iris of the eye is yellow. The bill and the legs are both red. 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. They are quick runners, generally preferring to run from danger than fly. They have been clocked running upwards of 70km/hour. When they do fly, it is generally only when they cannot out run their pursuer, or when they must reach an elevated perch.

Seriemas are most often seen alone or in pairs. Groups of three or more birds are most likely parents and offspring. They are a diurnal species and roost in trees at night. Dust bathing and sun bathing are practiced. In the latter, birds often lie on their side and appear as if they are dead.

### SYSTEMATICS

Red-legged seriemas are one of two species of seriemas. The slightly smaller black-legged seriema (*Chunga burmeisteri*) is also found in South America. Seriemas

are members of the Order Gruiformes, and are the only living members of the Cariamidae family. Their placement within this order has been disputed over the years. They are generally placed closest to bustards, with which they share similar cestode parasites. At one time, they were believed most related to Secretary birds (*Sagittarius serpentarius*) due to the exaggerated habit of both species to hunt snakes, but karyological differences between the two species dismiss this relationship (Benirschke, 1977). Recently, the Kagu (*Rhynochetos jubatus*) has been mentioned as being closest to the seriema based on plumage and behavioral similarities. Recent DNA work supporting this relationship is weak however. So for now, the seriemas remain as a suborder of the Gruiformes.

Fossilized predecessors of the seriemas of today 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. More distantly related forms of the family Phororhacidae from the Tertiary period have been found in France and Germany. These ancient flightless birds are believed related to modern day seriemas.

### DIET

Although seriemas are omnivorous, they are highly carnivorous. Their diet includes insects, especially grasshoppers and beetles. They also eat a large number of small rodents, lizards, frogs, birds, and occasionally snakes. Their reputation of consuming large numbers of snakes is exaggerated. Leaf material is consumed, as is seeds, fruits, and crops cultivated by man such as corn, beans, and grains. They swallow small prey items 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.

### REPRODUCTION

Seriemas are monogamous. In the wild, the breeding season corresponds to the rainy months of February to July in northeastern Brazil, September to January in central Brazil, and November to December in Argentina. Courtship display is done by the male and involves showing off the flight feathers by stretching them to one side. The display is also accompanied by strutting in front of the female, with head pointed down and crest raised.

Both sexes assist in nest building, which is usually in a tree 1-5 meters off the ground. Construction generally takes one month. 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 white, slightly spotted eggs are laid. Incubation is carried out by both sexes. Following a 27-28 day incubation period, the chicks hatch. They are covered in long light brown feathers and are fed by both parents. At about 12-15 days, they leave the nest and follow their parents on the ground in search of food. Even at this age, they can produce a call similar to the adult vocalization for which the species is renowned. Sometimes, only one chick is reared. Chicks fledge in one month. Reproduction has been reported at eight months in captivity.

## VOICE

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 be 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.

## RELATIONSHIP WITH HUMANS

The red-legged seriema is often called the crested seriema. The name seriema ('little ema') is a blend of a native phrase. *Seri* means small, and *ema* is the indigenous name for the Common rhea (*Rhea americana*), to which the seriema bears some resemblance. The generic name *Cariama* is a derivation of the Tupi word 'Cariama', meaning "the one that bears an erect crest."

The seriema's reputation of consuming large numbers of snakes has earned them an added bit of protection from over hunting among the local people, although the species is still hunted.

Seriemas have been kept in captivity since the late 1800's. They are generally long-lived birds, with life spans of 20 years not uncommon in captive situations. Easily tamed, some native people use seriemas as a sort of alarm system, as the birds will give notice at the first sign of anything unusual.

## STATUS & CONSERVATION

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. In central Brazil, the red-legged seriema is more often heard than seen, while in the southern part of the country it is considered uncommon. 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.

Threats to their habitat are in the form of agricultural development and hunting, but seriemas for the most part, seem to have adapted and in fact have colonized certain deforested areas in Brazil.

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## HISTORY OF THE CAPTIVE POPULATION

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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.

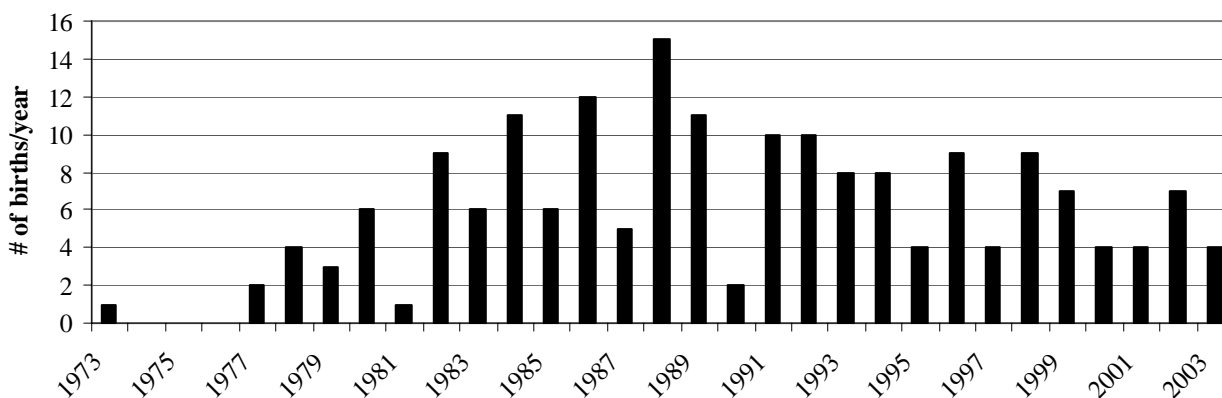
After 1939, no wild importation's occurred until 1966. When the Oklahoma Zoo imported a pair in 1966, there was only one red-legged seriema alive in a zoo in the United States. Wild importation's continued through the 1960's, with 11 additional birds entering the country. Many of these birds lived 15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

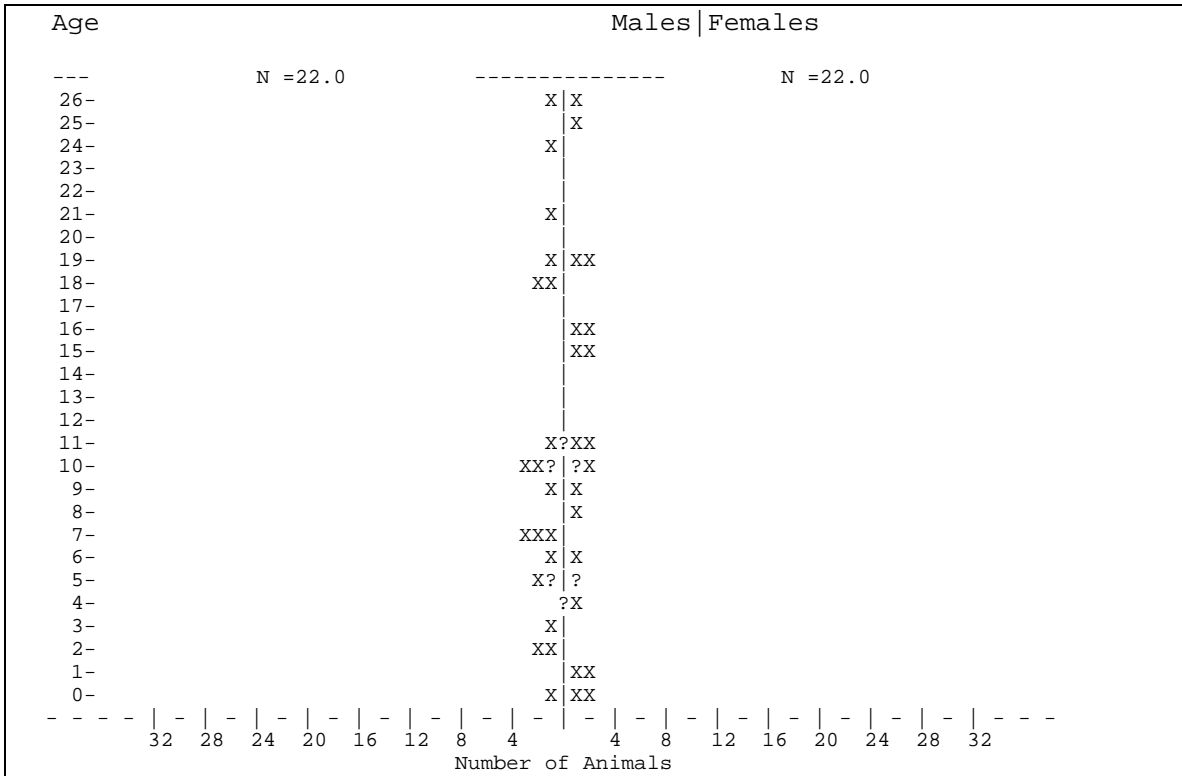
The first hatching of a red-legged seriema in a US zoo occurred at the San Antonio Zoo in 1973. In 1978, Ollson's Rare Bird Farm (Glendale) became the second facility to breed the species. During the 1970's and 1980's, Glendale was the major breeder of captive bred red-legged seriemas in the US. In 1980, 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.

### Births from 1973-2003



# AGE STRUCTURE OF LIVING BIRDS



X >>> Specimens of known sex...  
 ? >>> Specimens of unknown sex...



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# CENSUS

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Year as of 31 Dec	Specimen Counts		Observed Lambda	
			Annual	Geometric Mean
2003	19.19.6	(44)	0.98	
2002	19.19.7	(45)	1.05	1.01 (last 2 yrs)
2001	19.17.7	(43)	0.93	0.99 (last 3 yrs)
2000	19.20.7	(46)	0.88	0.96 (last 4 yrs)
1999	21.22.9	(52)	1.04	0.97 (last 5 yrs)
1998	22.22.6	(50)	1.04	0.99 (last 6 yrs)
1997	22.22.4	(48)	0.89	0.97 (last 7 yrs)
1996	25.24.5	(54)	1.08	0.98 (last 8 yrs)
1995	21.25.4	(50)	0.98	0.98 (last 9 yrs)
1994	21.27.3	(51)	1.04	0.99 (last 10 yrs)
1993	20.25.4	(49)	1.00	0.99 (last 11 yrs)
1992	20.27.2	(49)	0.94	0.99 (last 12 yrs)
1991	24.27.1	(52)	1.11	0.99 (last 13 yrs)
1990	23.23.1	(47)	0.89	0.99 (last 14 yrs)
1989	24.27.2	(53)	0.87	0.98 (last 15 yrs)
1988	27.33.1	(61)	1.11	0.99 (last 16 yrs)
1987	25.28.2	(55)	0.93	0.98 (last 17 yrs)
1986	28.28.3	(59)	1.13	0.99 (last 18 yrs)
1985	28.24.0	(52)	1.04	0.99 (last 19 yrs)
1984	27.23.0	(50)	1.09	1.00 (last 20 yrs)
1983	26.18.2	(46)	1.02	1.00 (last 21 yrs)
1982	23.19.3	(45)	1.25	1.01 (last 22 yrs)
1981	19.17.0	(36)	1.03	1.01 (last 23 yrs)
1980	17.18.0	(35)	1.30	1.02 (last 24 yrs)
1979	13.14.0	(27)	1.17	1.03 (last 25 yrs)
1978	10.13.0	(23)	1.15	1.03 (last 26 yrs)
1977	10.10.0	(20)	1.05	1.03 (last 27 yrs)
1976	9.10.0	(19)	1.00	1.03 (last 28 yrs)
1975	9.10.0	(19)	1.00	1.03 (last 29 yrs)
1974	9.10.0	(19)	1.12	1.03 (last 30 yrs)
1973	9.8.0	(17)	1.00	1.03 (last 31 yrs)
1972	8.8.1	(17)	1.06	1.03 (last 32 yrs)
1971	8.8.0	(16)	1.23	1.04 (last 33 yrs)
1970	7.6.0	(13)	1.00	1.04 (last 34 yrs)
1969	7.6.0	(13)	1.08	1.04 (last 35 yrs)
1968	6.6.0	(12)	1.33	1.05 (last 36 yrs)
1967	5.4.0	(9)	1.13	1.05 (last 37 yrs)
1966	4.3.1	(8)	2.67	1.07 (last 38 yrs)
1965	1.1.1	(3)	3.00	1.10 (last 39 yrs)
1964	0.0.1	(1)	1.00	1.10 (last 40 yrs)
1963	0.0.1	(1)	1.00	1.10 (last 41 yrs)
1962	0.0.1	(1)	1.00	1.09 (last 42 yrs)
1961	0.0.1	(1)	1.00	1.09 (last 43 yrs)
1960	0.0.1	(1)	1.00	1.09 (last 44 yrs)
1959	0.0.1	(1)	1.00	1.09 (last 45 yrs)
1958	0.0.1	(1)	1.00	1.09 (last 46 yrs)
1957	0.0.1	(1)	0.33	1.06 (last 47 yrs)
1956	0.0.3	(3)	0.75	1.05 (last 48 yrs)
1955	0.0.4	(4)	1.00	1.05 (last 49 yrs)
1954	0.0.4	(4)	1.00	1.05 (last 50 yrs)
1953	0.0.4	(4)	1.00	1.05 (last 51 yrs)
1952	0.0.4	(4)	1.00	1.05 (last 52 yrs)
1951	0.0.4	(4)	1.00	1.05 (last 53 yrs)
1950	0.0.4	(4)	1.00	1.05 (last 54 yrs)
1949	0.0.4	(4)	1.00	1.04 (last 55 yrs)
1948	0.0.4	(4)	1.00	1.04 (last 56 yrs)
1947	0.0.4	(4)	1.00	1.04 (last 57 yrs)
1946	0.0.4	(4)	1.00	1.04 (last 58 yrs)

1945	0.0.4	(4)	1.00	1.04	(last 59 yrs)
1944	0.0.4	(4)	1.00	1.04	(last 60 yrs)
1943	0.0.4	(4)	1.00	1.04	(last 61 yrs)
1942	0.0.4	(4)	1.00	1.04	(last 62 yrs)
1941	0.0.4	(4)	1.00	1.04	(last 63 yrs)
1940	0.0.4	(4)	0.80	1.03	(last 64 yrs)
1939	0.1.4	(5)	1.00	1.03	(last 65 yrs)
1938	0.1.4	(5)	1.67	1.04	(last 66 yrs)
1937	0.1.2	(3)	1.00	1.04	(last 67 yrs)
1936	0.1.2	(3)	0.75	1.04	(last 68 yrs)
1935	1.1.2	(4)	1.00	1.04	(last 69 yrs)
1934	0.1.3	(4)	1.33	1.04	(last 70 yrs)
1933	0.2.1	(3)	1.00	1.04	(last 71 yrs)
1932	0.2.1	(3)	1.00	1.04	(last 72 yrs)
1931	0.2.1	(3)	1.00	1.04	(last 73 yrs)
1930	0.2.1	(3)	1.50	1.04	(last 74 yrs)
1929	0.2.0	(2)	1.00	1.04	(last 75 yrs)
1928	0.2.0	(2)	1.00	1.04	(last 76 yrs)
1927	0.2.0	(2)	1.00	1.04	(last 77 yrs)
1926	0.2.0	(2)	2.00	1.05	(last 78 yrs)
1920	0.0.1	(1)	1.00	1.05	(last 79 yrs)
1919	0.0.1	(1)	1.00	1.05	(last 80 yrs)
1918	0.0.1	(1)	1.00	1.05	(last 81 yrs)
1917	0.0.1	(1)	1.00	1.05	(last 82 yrs)
1916	0.0.1	(1)	1.00	1.05	(last 83 yrs)
1915	0.0.1	(1)	1.00	1.05	(last 84 yrs)
1914	0.0.1	(1)	1.00	1.05	(last 85 yrs)
1913	0.0.1	(1)	1.00	1.04	(last 86 yrs)
1912	0.0.1	(1)	0.50	1.04	(last 87 yrs)
1911	0.1.1	(2)	2.00	1.04	(last 88 yrs)
1910	0.0.1	(1)	1.00	1.04	(last 89 yrs)
1909	0.0.1	(1)	0.50	1.03	(last 90 yrs)
1908	0.0.2	(2)	2.00	1.04	(last 91 yrs)
1907	0.0.1	(1)	1.00	1.04	(last 92 yrs)
1903	0.0.1	(1)	1.00	1.04	(last 93 yrs)
1896	0.0.1	(1)	1.00	1.04	(last 94 yrs)
1895	0.0.1	(1)	0.50	1.03	(last 95 yrs)
1894	0.0.2	(2)	1.00	1.03	(last 96 yrs)
1893	0.0.2	(2)	1.00	1.03	(last 97 yrs)
1892	0.0.2	(2)	2.00	1.04	(last 98 yrs)
1891	0.0.1	(1)	1.00	1.04	(last 99 yrs)

# REPRODUCTIVE PARAMETERS

Incubation period set to 27 days, ~0.9 months.

DAM DATA: 27 reported dams, with 50.50.72 (172) offspring

## Youngest dams at first clutch:

191 at age 1Y,0M,29D  
 226 at age 1Y,3M,22D  
 60 at age 1Y,9M,17D  
 81 at age 1Y,9M,28D  
 171 at age ~2Y,3M  
 90 at age 2Y,4M,13D  
 47 at age 2Y,5M,19D  
 56 at age 3Y,4M,23D  
 88 at age 3Y,9M,22D  
 131 at age 3Y,11M,28D

## Oldest dams at first clutch:

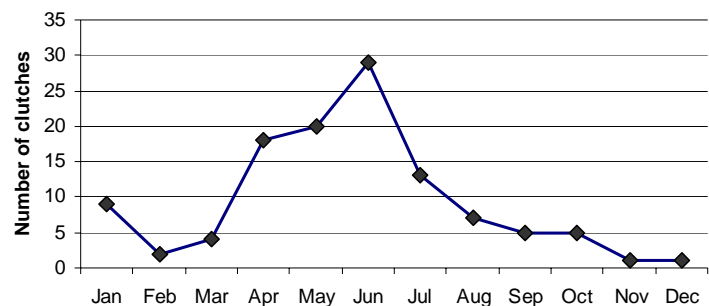
196 at age 18Y,4M,15D  
 31 at age 15Y,7M,3D  
 22 at age ~13Y  
 48 at age 12Y,11M,27D  
 69 at age ~11Y,6M  
 83 at age 8Y,0M,4D  
 125 at age ~7Y,10M  
 139 at age 7Y,8M,29D  
 26 at age 7Y,6M,11D  
 57 at age 7Y,3M,22D

Median age of females at first reproduction: 4Y,8M,20D  
 Mean age of females at first reproduction: 6Y,2M,8D  
 Median age of females at reproduction: 7Y,11M,5D  
 Mean age of females at reproduction: 9Y,1M,22D

## Hatch seasonality (clutches)

Month	Number of clutches	Percentage
January:	9	8%
February:	2	2%
March:	4	4%
April:	18	16%
May:	20	18%
June:	29	25%
July:	13	11%
August:	7	6%
September:	5	4%
October:	5	4%
November:	1	1%
December:	1	1%

## Hatch seasonality



## Clutch size

N

Clutch size	N	Percentage
1	64	56%
2	42	37%
3	8	7%

114 total clutches, mean size is 1.5

Youngest sires at first reproduction:

162 at age 11M,18D  
59 at age 1Y,8M,21D  
216 at age 1Y,10M,3D  
55 at age 2Y,0M,30D  
92 at age 2Y,3M,16D  
46 at age 2Y,4M,22D  
135 at age 2Y,10M,9D  
95 at age 2Y,10M,10D  
62 at age 3Y,6M,4D

Oldest sires at first reproduction:

194 at age 23Y,3M,20D  
193 at age ~13Y,6M  
21 at age ~12Y  
71 at age ~11Y,2M  
43 at age 10Y,5M,22D  
64 at age 8Y,11M,12D  
163 at age 8Y,3M,4D  
123 at age ~7Y,10M  
25 at age 7Y,5M,14D  
186 at age 7Y,1M,17D

Median age of males at first reproduction: ~4Y,6M  
Mean age of males at first reproduction: 6Y,1M,25D  
Median age of males at reproduction: 8Y,0M,3D  
Mean age of males at reproduction: 8Y,4M,28D  
(all ages are at dam conception)

Oldest dozen males:

27 Wild born Died at LAKEBUENA at age of ~26Y  
24 Wild born Died at TORONTO at age of ~25Y  
41 Wild born Died at COLUMBIA at age of ~23Y  
30 Wild born Died at EVANSVILLE at age of ~23Y  
43 Wild born Died at JONSSON at age of ~20Y  
25 Wild born Died at SAN ANTON at age of ~19Y  
36 Wild born Died at TOLEDO at age of ~18Y  
63 Captive born Died at DALLAS at age of 17Y,11M,3D  
21 Wild born Died at GLENDALE at age of ~17Y  
55 Captive born Died at SAFARI W at age of 16Y,2M,21D  
50 Captive born Died at LOSANGELE at age of ~13Y,7M,11D  
71 Captive born Died at LANNOM at age of 12Y,3M,19D

Oldest dozen females:

26 Wild born Died at GILLIS at age of ~31Y  
28 Wild born Died at LAKEBUENA at age of ~26Y  
23 Wild born Died at TORONTO at age of ~22Y  
51 Captive born Died at CLEARSPR at age of ~21Y,6M,16D  
29 Wild born Died at TRACY AV at age of ~21Y  
48 Captive born Died at LAKEBUENA at age of 20Y,8M,2D  
31 Wild born Died at BATONROUG at age of ~19Y  
83 Captive born Died at SEATTLE at age of 19Y,2M,28D  
223 Wild born Died at COLUMBIA at age of ~19Y  
39 Wild born Died at LOSANGELE at age of ~19Y  
87 Captive born Died at ALEXANDRI at age of 18Y,10M,4D  
65 Captive born Died at KNOXVILLE at age of 18Y,9M,2D

Oldest dozen living males:

46 Captive born At TULSA at age of ~26Y,1M,25D  
52 Captive born At SAN ANTON at age of 24Y,9M,12D  
64 Captive born At WILD WRLD at age of 21Y,10M,21D  
86 Captive born At DALLAS at age of 19Y,7M,28D  
92 Captive born At CALDWELL at age of 18Y,11M,14D  
95 Captive born At KNOXVILLE at age of 18Y,9M,10D  
155 Captive born At CRAWFRD W at age of 11Y,9M,14D  
170 Captive born At WORLDBIRD at age of ~10Y  
174 Captive born At COLUMBIA at age of 10Y,0M,5D  
176 Captive born At NZP-WASH at age of 9Y,10M,30D  
186 Captive born At METROZOO at age of 7Y,9M,19D  
227 Captive born At QUEBEC at age of ~7Y,9M

Oldest dozen living females:

47 Captive born At TULSA at age of ~26Y,1M,25D  
49 Captive born At SAN ANTON at age of ~25Y,3M,21D  
81 Captive born At DALLAS at age of 19Y,9M,22D  
88 Captive born At SEDGWICK at age of 19Y,7M,26D  
109 Captive born At ALEXANDRI at age of 16Y,10M,6D  
112 Captive born At KANSASCTY at age of 16Y,7M,2D  
116 Captive born At RIO GRAND at age of 15Y,11M,3D  
120 Captive born At COLUMBIA at age of 15Y,9M,10D  
156 Captive born At CRAWFRD W at age of 11Y,9M,14D  
158 Captive born At WORLDBIRD at age of 11Y,8M,14D  
164 Captive born At KNOXVILLE at age of 10Y,9M,7D  
178 Captive born At FRESNO at age of 9Y,7M,29D

Oldest dozen living unknown sex:

157 Captive born At DENVER at age of 11Y,8M,16D  
166 Captive born At CINCINNAT at age of 10Y,9M,4D  
167 Captive born At CRAWFRD W at age of 10Y,6M,23D  
200 Captive born At CRAWFRD W at age of 5Y,8M,29D  
205 Captive born At KNOXVILLE at age of 5Y,5M,19D  
207 Captive born At ORLANDO at age of 4Y,8M,1D

## Births from 1 January 2002 - 31 March 2004

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
225	F	28 Apr 2002	176	191	NZP-WASH JACKSONVL	28 Apr 2002 12 Nov 2002	214880 602376	Hatch Transfer
226	F	28 Apr 2002	176	191	NZP-WASH METROZOO	28 Apr 2002 14 Nov 2002	214881 B20257	Hatch Transfer
234	M	15 May 2002	216	MULT	ALEXANDRI	15 May 2002 26 Jun 2002	AV0072	Hatch Death
235	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002 14 Apr 2002	65	Hatch Death
236	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002 3 May 2002	66	Hatch Death
237	?	7 May 2002	163	185	BOYLE	7 May 2002 2 Jun 2002	67	Hatch Death
238	?	8 May 2002	163	185	BOYLE	8 May 2002 10 May 2002	68	Hatch Death
239	M	13 May 2003	176	191	NZP-WASH AUDUBON	13 May 2003 6 Nov 2003	215078 101104	Hatch Transfer
240	F	19 Aug 2003	186	226	METROZOO DREHER PA	19 Aug 2003 11 Feb 2004	B30232 UNK	Hatch Transfer
241	?	19 Aug 2003	186	226	METROZOO	19 Aug 2003 22 Aug 2003	B30233	Hatch Death
242	F	16 Oct 2003	192	88	SEDGWICK	16 Oct 2003	10649	Hatch
=====								
TOTALS: 2.4.5 (11)								



## Transfers from 1 January 2000 - 31 March 2004

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
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
88	F	3 Aug 1984	62	31	BATONROUG	3 Aug 1984	671	Hatch
					GREENVISC	20 May 1986		Transfer
					KNOXVILLE	27 Apr 1988	100	Transfer
					SEDGWICK	24 Apr 2003		Transfer
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	UNK	Transfer
186	M	7 Jun 1996	UNK	UNK	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
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
205	?	7 Oct 1998	148	171	ST LOUIS	7 Oct 1998	981084	Hatch
					ROCHESTER	8 Apr 1999	104865	Transfer
					KNOXVILLE	11 Nov 2002	2543	Transfer
218	M	29 May 2001	176	191	NZP-WASH	29 May 2001	214786	Hatch
					CLEARSPR	16 Nov 2001		Transfer
					BENNETT	~ May 2002		Transfer
					METROZOO	17 Feb 2003	B30023	Transfer
221	M	10 Oct 2001	163	185	BOYLE	10 Oct 2001	61	Hatch
					QUEBEC	20 Apr 2002	A25002	Transfer
222	M	12 Oct 2001	163	185	BOYLE	12 Oct 2001	63	Hatch
					QUEBEC	20 Apr 2002	A25003	Transfer
						9 Apr 2003		Death
225	F	28 Apr 2002	176	191	NZP-WASH	28 Apr 2002	214880	Hatch
					JACKSONVL	12 Nov 2002	602376	Transfer
226	F	28 Apr 2002	176	191	NZP-WASH	28 Apr 2002	214881	Hatch
					METROZOO	14 Nov 2002	B20257	Transfer
227	M	~ Jun 1996	228	UNK	WALSRODE	~ Jun 1996		Hatch
					QUEBEC	11 Apr 2002	A25001	Transfer
239	M	13 May 2003	176	191	NZP-WASH	13 May 2003	215078	Hatch
					AUDUBON	6 Nov 2003	101104	Transfer
240	F	19 Aug 2003	186	226	METROZOO	19 Aug 2003	B30232	Hatch
					DREHER PA	11 Feb 2004	UNK	Transfer

TOTALS: 7.6.1 (14)

## Deaths from 1 January 2002 - 31 March 2004

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
83	F	11 Jun 1984	52	49	SAN ANTON	11 Jun 1984	840654	Hatch
					DETROIT	17 Jul 1985	1543	Transfer
					BALTIMORE	17 Jul 1987	87966	Transfer
					SEATTLE	9 Apr 1988	880117	Transfer
						4 Sep 2003		Death
87	F	1 Aug 1984	62	31	BATONROUG	1 Aug 1984	642	Hatch
					ALEXANDRI	2 Mar 1992	AV0001	Transfer
						~ Jun 2003		Death
219	?	14 Oct 1999	148	171	ST LOUIS	14 Oct 1999	991015	Hatch
					ORLANDO	6 Jan 2000	RLS251	Transfer
						25 Sep 2003		Death
222	M	12 Oct 2001	163	185	BOYLE	12 Oct 2001	63	Hatch
					QUEBEC	20 Apr 2002	A25003	Transfer
						9 Apr 2003		Death
234	M	15 May 2002	216	MULT	ALEXANDRI	15 May 2002	AV0072	Hatch
						26 Jun 2002		Death
235	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002	65	Hatch
						14 Apr 2002		Death
236	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002	66	Hatch
						3 May 2002		Death
237	?	7 May 2002	163	185	BOYLE	7 May 2002	67	Hatch
						2 Jun 2002		Death
238	?	8 May 2002	163	185	BOYLE	8 May 2002	68	Hatch
						10 May 2002		Death
241	?	19 Aug 2003	186	226	METROZOO	19 Aug 2003	B30233	Hatch
						22 Aug 2003		Death

TOTALS: 2.2.6 (10)



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## *Living Studbook*

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Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
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### **ALEXANDRI - Alexandria Zoological Park, Alexandria, Louisiana**

109	F	24 May 1987	58	81	DALLAS	24 May 1987	874967	Hatch
					ALEXANDRI	9 Dec 1987	439001	Transfer
216	M	15 Jun 2000	176	191	NZP-WASH	15 Jun 2000	214563	Hatch
					ALEXANDRI	16 Nov 2000	AV0019	Transfer

Totals: 1.1.0 (2)

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### **AUDUBON - Audubon Park Zoological Garden, New Orleans, Louisiana**

239	M	13 May 2003	176	191	NZP-WASH	13 May 2003	215078	Hatch
					AUDUBON	6 Nov 2003	101104	Transfer

Totals: 1.0.0 (1)

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### **CALDWELL - Caldwell Zoo, Tyler, Texas**

92	M	15 Apr 1985	59	60	DALLAS	15 Apr 1985	854269	Hatch
					CALDWELL	6 Jan 1986	000809	Transfer
182	F	19 Jun 1995	64	48	LAKEBUENA	19 Jun 1995	250635	Hatch
					WORLD BIRD	6 Oct 1995	950610	Transfer
					CALDWELL	25 Sep 1997	104145	Transfer

Totals: 1.1.0 (2)

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

*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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### COLUMBIA - Riverbanks Zoo and Garden, Columbia, South Carolina

120	F	18 Jun 1988	62	31	BATONROUG	18 Jun 1988	6070	Hatch
					COLUMBIA	18 May 1989	004977	Transfer
174	M	23 Mar 1994	162	139	CLEARSPR	23 Mar 1994	95	Hatch
					COLUMBIA	6 Aug 1998	6630	Transfer

Totals: 1.1.0 (2)

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### CRAWFRD W - World Bird Sanctuary, St Louis, Missouri

*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

Totals: 1.1.2 (4)

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### DALLAS - Dallas Zoo, Dallas, Texas

81	F	7 Jun 1984	59	60	DALLAS	7 Jun 1984	844042	Hatch
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

Totals: 1.1.0 (2)

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### DENVER - Denver Zoological Gardens, Denver, Colorado

\*157 ? 12 Jul 1992 95 88 KNOXVILLE 12 Jul 1992 337 Hatch  
DENVER 22 Apr 1999 990191 Transfer

Totals: 0.0.1 (1)

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

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

Totals: 0.1.0 (1)

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### FRESNO - Chaffee Zool Gardens of Fresno, Fresno, California

\*178 F 29 Jul 1994 193 119 GILLIS 29 Jul 1994 \_\_\_\_\_ Hatch  
FRESNO 29 Oct 1995 950222 Transfer

Totals: 0.1.0 (1)

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### JACKSONVL - Jacksonville Zoological Gardens, Jacksonville, Florida

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)

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### KANSASCTY - Kansas City Zoological Gardens, Kansas City, Missouri

\*112 F 27 Aug 1987 92 90 CALDWELL 27 Aug 1987 001503 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

Totals: 0.1.0 (1)

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### KNOXVILLE - Knoxville Zoological Gardens, Knoxville, Tennessee

95	M	19 Jun 1985	62	31	BATONROUG	19 Jun 1985	5770	Hatch
					GREENVISC	20 May 1986	_____	Transfer
					KNOXVILLE	27 Apr 1988	101	Transfer
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	UNK	Transfer
*205	?	7 Oct 1998	148	171	ST LOUIS	7 Oct 1998	981084	Hatch
					ROCHESTER	8 Apr 1999	104865	Transfer
					KNOXVILLE	11 Nov 2002	2543	Transfer

Totals: 1.1.1 (3)

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### METROZOO - Miami Metrozoo, Miami, Florida

186	M	7 Jun 1996	UNK	UNK	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
218	M	29 May 2001	176	191	NZP-WASH	29 May 2001	214786	Hatch
					CLEARSPR	16 Nov 2001	_____	Transfer
					BENNETT	~ May 2002	_____	Transfer
					METROZOO	17 Feb 2003	B30023	Transfer
226	F	28 Apr 2002	176	191	NZP-WASH	28 Apr 2002	214881	Hatch
					METROZOO	14 Nov 2002	B20257	Transfer

Totals: 2.1.0 (3)

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### NZP-WASH - National Zoological Park - Wash, Washington, DC

176	M	28 Apr 1994	64	48	LAKEBUENA	28 Apr 1994	240419	Hatch
					JONSSON	11 Oct 1994	240419	Transfer
					NZP-WASH	8 Nov 1995	213705	Transfer
191	F	30 May 1997	162	139	CLEARSPR	30 May 1997	_____	Hatch
					NZP-WASH	25 Sep 1997	213963	Transfer

Totals: 1.1.0 (2)

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### ORLANDO - Sea World Orlando, Orlando, Florida

*207	?	26 Jul 1999	148	171	ST LOUIS ORLANDO	26 Jul 1999 990781 6 Jan 2000 RLS250	Hatch Transfer
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Totals: 0.0.1 (1)

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### QUEBEC - Jardin Zoologique Du Quebec, Charlesbourg, Quebec, Canada

204	F	24 May 1999	176	191	NZP-WASH CRAWFRD W QUEBEC	24 May 1999 214319 27 Oct 1999 _____ 4 Oct 2002 A25004	Hatch Transfer Transfer
*221	M	10 Oct 2001	163	185	BOYLE QUEBEC	10 Oct 2001 61 20 Apr 2002 A25002	Hatch Transfer
227	M	~ Jun 1996	228	UNK	WALSRODE QUEBEC	~ Jun 1996 _____ 11 Apr 2002 A25001	Hatch Transfer

Totals: 2.1.0 (3)

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

*116	F	25 Apr 1988	92	90	CALDWELL RIO GRAND	25 Apr 1988 001582 13 Jun 1989 B21734	Hatch Transfer
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Totals: 0.1.0 (1)

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

49	F	~10 Dec 1978	21	22	GLENDALE SAN ANTON	~10 Dec 1978 _____ 11 Dec 1979 791240	Hatch Transfer
52	M	19 Jun 1979	25	26	SAN ANTON	19 Jun 1979 791643	Hatch

Totals: 1.1.0 (2)

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### SEDGWICK - Sedgwick County Zoo, Wichita, Kansas

88	F	3 Aug 1984	62	31	BATONROUG	3 Aug 1984	671	Hatch
					GREENVISC	20 May 1986	_____	Transfer
					KNOXVILLE	27 Apr 1988	100	Transfer
					SEDGWICK	24 Apr 2003	_____	Transfer
192	M	28 Jan 1998	162	139	CLEARSPR	28 Jan 1998	_____	Hatch
					SEDGWICK	24 Jun 1999	8965	Transfer
242	F	16 Oct 2003	192	88	SEDGWICK	16 Oct 2003	10649	Hatch

Totals: 1.2.0 (3)

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### TULSA - Tulsa Zoo and Living Museum, Tulsa, Oklahoma

46	M	~ 5 Feb 1978	21	22	GLENDALE	~ 5 Feb 1978	_____	Hatch
					TULSA	5 Feb 1979	3287	Transfer
47	F	~ 5 Feb 1978	21	22	GLENDALE	~ 5 Feb 1978	_____	Hatch
					TULSA	5 Feb 1979	3288	Transfer

Totals: 1.1.0 (2)

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

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

Totals: 2.0.0 (2)

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### WORLDBIRD - Steve Martin Natural Encounters Inc, Lake Wales, Florida

158	F	14 Jul 1992	95	88	KNOXVILLE	14 Jul 1992	338	Hatch
					WORLDBIRD	5 Feb 1993	338	Transfer

170	M	~ 1993	UNK	UNK	BATONROUG	~ 1993	_____	Hatch
					SLAUGHTER	10 Sep 1996	_____	Transfer
					DREHER PA	10 Sep 1996	96169	Transfer
					WORLDBIRD	7 Jan 1998	980002	Transfer
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

Totals: 2.1.0 (3)

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**TOTALS: 19.19.6 (44)**

## HISTORICAL STUDBOOK

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
1	?	~ 1890	WILD	WILD	S.AMERICA NZP-WASH	~ Jan 1891	NONE	Capture
						23 Jun 1891	_____	Transfer
						4 Oct 1897	_____	Death
2	?	~ 1891	WILD	WILD	S.AMERICA PHILADELP	~ 1892	NONE	Capture
						12 May 1892	L2	Transfer
						4 Dec 1895	_____	Death
3	?	~ 1901	WILD	WILD	S.AMERICA HAGENBECK NZP-WASH	~ 1903	NONE	Capture
						~ 1903	_____	Transfer
						7 Aug 1903	_____	Transfer
						24 Jun 1904	_____	Death
4	M	~ 1906	WILD	WILD	PARAGUAY NZP-WASH	~ 1908	NONE	Capture
						11 Apr 1908	_____	Transfer
						21 Nov 1908	_____	Death
5	?	~ 1907	WILD	WILD	S.AMERICA NZP-WASH	~ 1907	NONE	Capture
						14 Mar 1908	_____	Transfer
						15 Jul 1921	_____	Death
6	?	~ 1907	WILD	WILD	S.AMERICA L RUHE PHILADELP	~ 1908	NONE	Capture
						~ 1908	_____	Transfer
						12 May 1908	L3	Transfer
						6 Feb 1909	_____	Death
7	F	~ 1910	WILD	WILD	S.AMERICA NY BRONX PHILADELP	~ 1911	NONE	Capture
						~ 1911	_____	Transfer
						1 May 1912	L4	Transfer
8	F	~ 1925	WILD	WILD	S.AMERICA JOSEPH E PHILADELP	~ 1926	NONE	Capture
						~ 1926	_____	Transfer
						12 May 1926	L5	Transfer
9	F	~ 1925	WILD	WILD	S.AMERICA JOSEPH E PHILADELP	~ 1926	NONE	Capture
						~ 1926	_____	Transfer
						12 May 1926	L6	Transfer
						26 Jan 1940	_____	Death



10	?	~ 1930	WILD	WILD	S.AMERICA NKP-WASH	~ 1930 21 Aug 1931 6 Aug 1935	NONE	Capture Transfer Death
11	?	~ 1934	WILD	WILD	S.AMERICA IBANEZ SANDIEGOZ	~ 1934 ~ 1934 5 Sep 1935 9 Oct 1956	NONE 413626	Capture Transfer Transfer Death
12	?	~ 1934	WILD	WILD	S.AMERICA IBANEZ SANDIEGOZ	~ 1934 ~ 1934 5 Sep 1935 31 Jan 1957	NONE 413627	Capture Transfer Transfer Death
13	M	~ 1933	WILD	WILD	S.AMERICA L RUHE PHILADELP	~ 1934 ~ 1934 22 May 1934 10 Jun 1934	NONE L7	Capture Transfer Transfer Death
14	M	~ 1934	WILD	WILD	S.AMERICA JOSEPH E PHILADELP	~ 1935 ~ 1935 21 Nov 1935 7 Jan 1936	NONE L8	Capture Transfer Transfer Death
15	?	~ 1938	WILD	WILD	S.AMERICA NKP-WASH	~ 1938 27 Jun 1939 ~ 1957	NONE	Capture Transfer Death
16	?	~ 1938	WILD	WILD	S.AMERICA NKP-WASH	~ 1938 27 Jun 1939 13 Jun 1967	NONE	Capture Transfer Death
17	M	~ 1964	WILD	WILD	S.AMERICA J HANAN OKLAHOMA	~ 1966 ~ 1966 8 Feb 1966 28 Feb 1973	NONE 072001	Capture Transfer Transfer Death
18	F	~ 1964	WILD	WILD	S.AMERICA J HANAN OKLAHOMA	~ 1966 ~ 1966 8 Feb 1966 31 Oct 1975	NONE 072102	Capture Transfer Transfer Death
19	M	~ 1966	WILD	WILD	S.AMERICA HERMOSA B SANDIEGOZ TOLEDO LEBEDA	~ 1968 ~ 1968 17 Oct 1968 10 Feb 1977 26 Oct 1989	NONE 200602 771509	Capture Transfer Transfer Transfer lrf Transfer
20	M	~ 1964	WILD	WILD	S.AMERICA	~ 1966	NONE	Capture

					CHASE	~ 1966	_____	Transfer
					SANDIEGOZ	26 Sep 1967	413628	Transfer
						25 Dec 1968		Death
21	M	~ 1964	WILD	WILD	S.AMERICA	~ 1965	NONE	Capture
					CHASE	~ 1965	_____	Transfer
					SOLANO C	~ 1965	_____	Transfer
					GLENDALE	~ 1970	_____	Transfer
						~ 1981		Death
22	F	~ 1964	WILD	WILD	S.AMERICA	~ 1965	NONE	Capture
					CHASE	~ 1965	_____	Transfer
					SOLANO C	~ 1965	_____	Transfer
					GLENDALE	~ 1970	_____	Transfer
						~ 1981		Death
23	F	~ 1965	WILD	WILD	S.AMERICA	~ 1966	NONE	Capture
					ABILENE	1 Jul 1966	200	Transfer
					TORONTO	28 Oct 1982	16856	Transfer
						23 Jan 1988		Death
24	M	~ 1965	WILD	WILD	S.AMERICA	~ Jan 1966	NONE	Capture
					ABILENE	1 Jul 1966	201	Transfer
					TORONTO	28 Oct 1982	16855	Transfer
						19 Sep 1990		Death
25	M	~ 1966	WILD	WILD	S.AMERICA	~ Jan 1968	NONE	Capture
					SAN ANTON	8 Apr 1968	680072	Transfer
						23 Nov 1985		Death
26	F	~ 1966	WILD	WILD	S.AMERICA	~ Jan 1968	NONE	Capture
					SAN ANTON	8 Apr 1968	680073	Transfer
					GILLIS	6 Apr 1992	_____	Transfer
						~ 1997		Death
27	M	~ 1966	WILD	WILD	S.AMERICA	~ Dec 1967	NONE	Capture
					SAN ANTON	1 Jan 1968	680097	Transfer
					LAKEBUENA	9 Nov 1978	081102	Transfer
						1 Jan 1992		Death
28	F	~ 1966	WILD	WILD	S.AMERICA	~ Dec 1967	NONE	Capture
					SAN ANTON	1 Jan 1968	680098	Transfer
					LAKEBUENA	9 Nov 1978	081103	Transfer
						1 Jan 1992		Death
29	F	~ 1967	WILD	WILD	S.AMERICA	~ 1968	NONE	Capture
					CHASE	~ 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
30	M	~ 1969	WILD	WILD	S.AMERICA	~ 1969	NONE		Capture
					CHASE	~ 1969			Transfer
					BATONROUG	19 Jul 1971	90		Transfer
					MONTGOMRY	4 Oct 1983			Transfer
					BATONROUG	5 Aug 1988	90		Transfer
					EVANSVILLE	10 Aug 1988	288104		Transfer
						14 Jul 1992			Death
31	F	~ 1969	WILD	WILD	S.AMERICA	~ 1971	NONE		Capture
					CHASE	~ 1971			Transfer
					BATONROUG	19 Jul 1971	89		Transfer
						23 Jun 1988			Death
32	F	~ 1970	WILD	WILD	S.AMERICA	~ 1971	NONE		Capture
					FREY W	~ 1971			Transfer
					PHILADELP	19 May 1972	L9		Transfer
					NZP-WASH	13 Sep 1973	201845		Transfer
						4 Aug 1983			Death
33	?	27 Jan 1998	162	139	CLEARSPR	27 Jan 1998			Hatch
						~ 1998			Death
34	?	~ 1970	WILD	WILD	S.AMERICA	~ 1972	NONE		Capture
					MERRIT	~ 1972			Transfer
					CHICAGOLP	8 Apr 1972	4099		Transfer
						16 Aug 1972			Death
35	M	~ 1970	WILD	WILD	S.AMERICA	~ 1972	NONE		Capture
					FREY W	~ 1972			Transfer
					PHILADELP	19 May 1972	L10		Transfer
						25 May 1972			Death
36	M	~ 1970	WILD	WILD	S.AMERICA	~ 1971	NONE		Capture
					SCHEDEL	~ 1971			Transfer
					TOLEDO	1 Jan 1971	711508		Transfer
						28 Dec 1987			Death
37	M	~ 1971	WILD	WILD	S.AMERICA	~ 1973	NONE		Capture
					CHICAGOLP	1 Jan 1973			Transfer
					OKLAHOMA	5 Dec 1973	343203		Transfer
						9 Jun 1974			Death
38	F	~ 1972	WILD	WILD	S.AMERICA	~ 1974	NONE		Capture
					CHASE	~ 1974			Transfer
					COLUMBIA	10 May 1974	SJ0280		Transfer
					NZP-WASH	12 May 1981	206529		Transfer

						7 Aug 1981		Death
39	F	~ 1972	WILD	WILD	S.AMERICA	~ 1975	NONE	Capture
					CHASE	~ 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
40	M	11 Jul 1973	25	26	SAN ANTON	11 Jul 1973	730749	Hatch
						10 Jun 1977		Death
41	M	~ 1975	WILD	WILD	S.AMERICA	~ 1977	NONE	Capture
					LOSANGELE	~ May 1977	06764	Transfer
					COLUMBIA	18 Aug 1977	SJ1167	Transfer
						~ Jul 1998		Death
42	M	~ 1977	21	22	GLENDALE	~ 1977		Hatch
					NZP-WASH	13 Apr 1978	205318	Transfer
						2 May 1978		Death
43	M	~ 1977	WILD	WILD	S.AMERICA	~ 1979	NONE	Capture
					BELLBIRD	~ 1980		Transfer
					SANDIEGOZ	22 Jan 1981	281491	Transfer
					JONSSON	19 Oct 1989	281491	Transfer
44	?	14 Jun 1977	25	26	SAN ANTON	14 Jun 1977	770630	Hatch
						2 Jul 1977		Death
45	F	~ 1978	WILD	WILD	S.AMERICA	~ 1980	NONE	Capture
					SD-WAP	1 Jan 1980	016483	Transfer
						8 Aug 1984		Death
46	M	~ 5 Feb 1978	21	22	GLENDALE	~ 5 Feb 1978		Hatch
					TULSA	5 Feb 1979	3287	Transfer
47	F	~ 5 Feb 1978	21	22	GLENDALE	~ 5 Feb 1978		Hatch
					TULSA	5 Feb 1979	3288	Transfer
48	F	23 May 1978	25	26	SAN ANTON	23 May 1978	781594	Hatch
					LAKEBUENA	9 Nov 1978	081101	Transfer
						18 Jan 1999		Death
49	F	~10 Dec 1978	21	22	GLENDALE	~10 Dec 1978		Hatch
					SAN ANTON	11 Dec 1979	791240	Transfer
50	M	~25 Jan 1979	21	22	GLENDALE	~25 Jan 1979		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
51	F	~23 May 1979	21	22	GLENDAL	~23 May 1979	_____	Hatch
					SAN ANTON	23 May 1980	801519	Transfer
					NZP-WASH	3 May 1984	208265	Transfer
					CLEARSPR	31 Aug 1995	_____	Transfer
						~ 1 Dec 2000		Death
52	M	19 Jun 1979	25	26	SAN ANTON	19 Jun 1979	791643	Hatch
53	M	~ 6 Feb 1980	21	22	GLENDAL	~ 6 Feb 1980	_____	Hatch
					WILD WRLD	5 Feb 1984	349	Transfer
						16 Nov 1989		Death
54	F	~ 6 Feb 1980	21	22	GLENDAL	~ 6 Feb 1980	_____	Hatch
					WILD WRLD	5 Feb 1984	350	Transfer
						27 Jun 1989		Death
55	M	29 Mar 1980	21	22	GLENDAL	29 Mar 1980	_____	Hatch
					SD-WAP	~ 1981	204375	Transfer
					ATASCADER	29 Jul 1987	870009	Transfer
					SAFARI W	10 Feb 1993	_____	Transfer
						15 Jun 1996		Death
56	F	~ 1983	UNK	UNK	SD-WAP	1 Jan 1984	026617	Transfer
					ATASCADER	30 Jun 1987	870010	Transfer
					SAFARI W	10 Feb 1993	29309	Transfer
						15 Jun 1996		Death
57	F	29 Mar 1980	21	22	GLENDAL	29 Mar 1980	_____	Hatch
					SANDIEGOZ	29 Aug 1980	204376	Transfer
					JONSSON	19 Oct 1989	204376	Transfer
						~25 Oct 1989		Death
58	M	~23 Jul 1980	WILD	WILD	BOLIVIA	~ 1981	UKNK	Capture
					WORLDWIDE	~ 1981	_____	Transfer
					DALLAS	24 Jul 1981	813001	Transfer
						18 Sep 1992		Death
59	M	~23 Jul 1980	WILD	WILD	BOLIVIA	~ 1981	NONE	Capture
					WORLDWIDE	~ 1981	_____	Transfer
					DALLAS	24 Jul 1981	813002	Transfer
					PHILADELP	12 Sep 1986	203346	Transfer
						25 Dec 1989		Death
60	F	~23 Jul 1980	WILD	WILD	BOLIVIA	~ 1981	NONE	Capture
					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
61	M	25 Jul 1980	46	47	TULSA	25 Jul 1980	4309	Hatch
					NZP-WASH	17 Jun 1981	206814	Transfer
						25 Dec 1983		Death
62	M	~ 1981	WILD	WILD	S.AMERICA	~ 1983	NONE	Capture
					CHASE	~ 1983		Transfer
					BATONROUG	6 Apr 1983	550	Transfer
						12 Feb 1992		Death
63	M	5 Jun 1981	46	47	TULSA	5 Jun 1981	4705	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
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
65	F	25 May 1982	55	UNK	SD-WAP	25 May 1982	082719	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
66	?	25 May 1982	55	UNK	SANDIEGOZ	25 May 1982	082720	Hatch
					LEVIN	29 Feb 1984		ltf Transfer
67	M	12 Jun 1982	55	45	SANDIEGOZ	12 Jun 1982	082838	Hatch
					MICH KEN	29 Apr 1987		ltf Transfer
68	M	13 Jun 1982	55	45	SANDIEGOZ	13 Jun 1982	082844	Hatch
					MICH KEN	29 Apr 1987		ltf Transfer
69	F	2 Jul 1982	55	UNK	SANDIEGOZ	2 Jul 1982	082901	Hatch
					LANNOM	26 Feb 1984		Transfer
						~ 1995		Death
70	?	3 Jul 1982	55	UNK	SANDIEGOZ	3 Jul 1982	082902	Hatch
						14 Jan 1984		Death

71	M	16 Sep 1982	55	UNK	SANDIEGOZ LANNOM	16 Sep 1982 26 Feb 1984 ~ 1995	182170 _____	Hatch Transfer Death
72	?	16 Sep 1982	55	UNK	SANDIEGOZ STEHLY	16 Sep 1982 14 Oct 1983	182171 _____	Hatch ltf Transfer
73	?	15 Apr 1983	59	60	DALLAS SAFARI W	15 Apr 1983 2 Nov 1983	833594 _____	Hatch ltf Transfer
74	?	15 Apr 1983	59	60	DALLAS SAFARI W	15 Apr 1983 2 Nov 1983	833595 _____	Hatch ltf Transfer
75	?	19 May 1983	52	49	SAN ANTON	19 May 1983 20 May 1983	831520	Hatch Death
76	M	20 May 1983	52	49	SAN ANTON NZP-WASH	20 May 1983 3 May 1984 16 Feb 1994	831537 208264	Hatch Transfer Death
77	M	20 May 1983	52	49	SAN ANTON HENDEE	20 May 1983 3 Oct 1984	831536 _____	Hatch ltf Transfer
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 Transfer
79	?	19 May 1984	53	54	WILD WRLD	19 May 1984 29 May 1984	385	Hatch Death
80	F	7 Jun 1984	59	60	DALLAS	7 Jun 1984 2 Nov 1984	844041	Hatch Death
81	F	7 Jun 1984	59	60	DALLAS	7 Jun 1984	844042	Hatch
82	F	10 Jun 1984	52	49	SAN ANTON DETROIT	10 Jun 1984 17 Jun 1985 21 Aug 1985	840641 1542	Hatch Transfer Death
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
84	M	26 Jul 1984	46	47	TULSA TRACY AV	26 Jul 1984 9 Aug 1985	6834 850514	Hatch Transfer

						17 Dec 1987		Death
85	?	27 Jul 1984	46	47	TULSA	27 Jul 1984 2 Aug 1984	6844	Hatch Death
86	M	1 Aug 1984	62	31	BATONROUG GULF BREZ BATONROUG DISNEY AK DALLAS	1 Aug 1984 3 Dec 1988 24 Mar 1995 25 Sep 1997 30 Apr 2002	670 661 670 970161 02E317	Hatch Transfer Transfer Transfer Transfer
87	F	1 Aug 1984	62	31	BATONROUG ALEXANDRI	1 Aug 1984 2 Mar 1992 ~ Jun 2003	642 AV0001	Hatch Transfer Death
88	F	3 Aug 1984	62	31	BATONROUG GREENVISC KNOXVILLE SEDGWICK	3 Aug 1984 20 May 1986 27 Apr 1988 24 Apr 2003	671 _____ 100 _____	Hatch Transfer Transfer Transfer
89	?	29 Aug 1984	62	31	BATONROUG	29 Aug 1984 16 Nov 1984	5673	Hatch Death
90	F	14 Apr 1985	59	60	DALLAS CALDWELL	14 Apr 1985 6 Jan 1986 24 May 1989	854268 000810	Hatch Transfer Death
91	?	14 Apr 1985	59	60	DALLAS	14 Apr 1985 17 Aug 1985	854267	Hatch Death
92	M	15 Apr 1985	59	60	DALLAS CALDWELL	15 Apr 1985 6 Jan 1986	854269 000809	Hatch Transfer
93	?	20 May 1985	62	31	BATONROUG	20 May 1985 5 Jun 1985	5769	Hatch Death
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 _____ ltf	Hatch Transfer Transfer Transfer
95	M	19 Jun 1985	62	31	BATONROUG GREENVISC KNOXVILLE	19 Jun 1985 20 May 1986 27 Apr 1988	5770 _____ 101	Hatch Transfer Transfer
96	?	1 Jan 1986	62	31	BATONROUG	1 Jan 1986 10 Apr 1986	5819	Hatch Death
97	?	3 Jan 1986	62	31	BATONROUG	3 Jan 1986 3 Feb 1986	5820	Hatch Death



98	F	3 Apr 1986	UNK	UNK	SD-WAP	3 Apr 1986	029553	Hatch
						3 Apr 1986		Death
99	F	5 Apr 1986	58	81	DALLAS	5 Apr 1986	864605	Hatch
					C. YOUNG	15 Jan 1987	_____	ltf Transfer
100	M	5 Apr 1986	58	81	DALLAS	5 Apr 1986	864606	Hatch
					AURORA	20 Nov 1986	_____	ltf Transfer
101	F	18 May 1986	52	49	SAN ANTON	18 May 1986	861507	Hatch
					EVANSVILLE	15 Oct 1987	287189	Transfer
						11 Jun 1990		Death
102	F	25 May 1986	55	56	SD-WAP	25 May 1986	034584	Hatch
					MICH KEN	29 Apr 1987	_____	ltf Transfer
103	M	~ May 1996	148	171	CROFT L	~ May 1996	_____	Hatch
					GILLIS	~ Jan 2001	_____	ltf Transfer
104	?	27 Jun 1986	58	81	DALLAS	27 Jun 1986	864714	Hatch
						17 Jul 1986		Death
105	?	10 Jul 1986	62	31	BATONROUG	10 Jul 1986	5893	Hatch
					J.DISCH	4 Apr 1987	_____	ltf Transfer
106	?	16 Aug 1986	62	31	BATONROUG	16 Aug 1986	5916	Hatch
					J.DISCH	4 Apr 1987	_____	ltf Transfer
107	?	5 Sep 1986	62	31	BATONROUG	5 Sep 1986	5917	Hatch
					J.DISCH	4 Apr 1987	_____	ltf Transfer
108	?	17 Apr 1987	62	31	BATONROUG	17 Apr 1987	5983	Hatch
					GULF BREZ	20 Jun 1987	378	Transfer
						8 Aug 1994		Death
109	F	24 May 1987	UNK	UNK	DALLAS	24 May 1987	874967	Hatch
					ALEXANDRI	9 Dec 1987	439001	Transfer
110	?	12 Jun 1987	52	49	SAN ANTON	12 Jun 1987	870672	Hatch
					EVANSVILLE	15 Oct 1987	287190	Transfer
						2 Mar 1988		Death
111	M	19 Jul 1987	43	57	SANDIEGOZ	19 Jul 1987	387823	Hatch
						16 Mar 1988		Death
112	F	27 Aug 1987	92	90	CALDWELL	27 Aug 1987	001503	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
113	?	3 Apr 1988	58	81 DALLAS	3 Apr 1988	886174		Hatch
				MCCOY T	9 Jun 1988	_____	ltf	Transfer
114	?	3 Apr 1988	58	81 DALLAS	3 Apr 1988	886175		Hatch
				MCCOY T	9 Jun 1988	_____	ltf	Transfer
115	?	3 Apr 1988	58	81 DALLAS	3 Apr 1988	886176		Hatch
				MCCOY T	9 Jun 1988	_____	ltf	Transfer
116	F	25 Apr 1988	92	90 CALDWELL	25 Apr 1988	001582		Hatch
				RIO GRAND	13 Jun 1989	B21734		Transfer
117	F	28 May 1988	52	49 SAN ANTON	28 May 1988	881584		Hatch
				CALDWELL	19 Jul 1989	001592		Transfer
					11 Jun 1993			Death
118	M	7 Jun 1988	55	56 ATASCADER	7 Jun 1988	880025		Hatch
				RUNDEL	1 Jun 1989	_____		Transfer
				SAN FRAN	19 Jul 1989	289015		Transfer
				RUNDEL	1 Jan 1991	_____		Transfer
				GILLIS	~ 1994	_____		Transfer
					14 Jul 1997			Death
119	F	7 Jun 1988	55	56 ATASCADER	7 Jun 1988	880026		Hatch
				RUNDEL	1 Jun 1989	_____		Transfer
				SAN FRAN	19 Jul 1989	289016		Transfer
				RUNDEL	1 Jan 1991	_____		Transfer
				GILLIS	~ 1994	101	ltf	Transfer
120	F	18 Jun 1988	62	31 BATONROUG	18 Jun 1988	6070		Hatch
				COLUMBIA	18 May 1989	004977		Transfer
121	F	18 Jun 1988	62	31 BATONROUG	18 Jun 1988	6089		Hatch
				WILMOTH	2 May 1989	_____	ltf	Transfer
122	F	26 Jun 1988	43	57 SANDIEGOZ	26 Jun 1988	388980		Hatch
				WALSRODE	20 Apr 1989	_____	ltf	Transfer
123	M	27 Jun 1988	43	57 SANDIEGOZ	27 Jun 1988	388985		Hatch
				WALSRODE	20 Apr 1989	_____	ltf	Transfer
124	?	18 Jul 1988	UNK	UNK DALLAS	18 Jul 1988	886270		Hatch
					29 Jul 1988			Death
125	F	18 Jul 1988	43	57 SANDIEGOZ	18 Jul 1988	488139		Hatch
				WALSRODE	20 Apr 1989	_____	ltf	Transfer
126	?	16 Sep 1988	58	81 DALLAS	16 Sep 1988	886295		Hatch

					MCCOY T	5 Dec 1988	_____	ltf	Transfer
127	?	16 Sep 1988	58	81	DALLAS	16 Sep 1988	886296		Hatch
					MCCOY T	5 Dec 1988	_____	ltf	Transfer
128	?	15 Apr 1989	58	81	DALLAS	15 Apr 1989	896515		Hatch
						5 May 1989			Death
129	?	15 Apr 1989	58	81	DALLAS	15 Apr 1989	896516		Hatch
						5 May 1989			Death
130	M	20 Apr 1989	62	87	BATONROUG	20 Apr 1989	6212		Hatch
					WILD WRLD	5 Dec 1989	2640		Transfer
					GILLIS	9 Dec 1991	_____		Transfer
						~ 1994			Death
131	F	20 Apr 1989	62	87	BATONROUG	20 Apr 1989	6213		Hatch
					JONSSON	21 Nov 1989	6213		Transfer
					CROFT L	~ 1 Dec 1998	_____		Transfer
					GILLIS	~ Jan 2001	_____	ltf	Transfer
132	?	6 Jun 1989	59	60	PHILADELP	6 Jun 1989	203956		Hatch
						9 Jun 1989			Death
133	F	7 Jun 1989	43	57	SANDIEGOZ	7 Jun 1989	389727		Hatch
					VANDERHOO	18 Dec 1989	_____	ltf	Transfer
134	?	16 Jun 1989	46	47	TULSA	16 Jun 1989	9316		Hatch
						28 Jun 1989			Death
135	M	9 Jul 1989	43	57	SANDIEGOZ	9 Jul 1989	389955		Hatch
					SEATTLE	3 Nov 1989	891063		Transfer
						18 Aug 2000			Death
136	F	12 Jul 1989	43	57	SANDIEGOZ	12 Jul 1989	389973		Hatch
					VANDERHOO	18 Dec 1989	_____	ltf	Transfer
137	?	10 Aug 1989	46	47	TULSA	10 Aug 1989	9427		Hatch
						21 Aug 1989			Death
138	?	3 Nov 1989	62	87	BATONROUG	3 Nov 1989	6288		Hatch
					WILD WRLD	5 Dec 1989	2641		Transfer
						14 Mar 1990			Death
139	F	26 Jun 1986	59	60	DALLAS	26 Jun 1986	864713		Hatch
					AURORA	20 Nov 1986	_____		Transfer
					NEWMAN	~ Jun 1990	_____		Transfer
					CLEARSPR	~ Jul 1990	75	ltf	Transfer

140	?	10 Mar 1990	62	87	BATONROUG	10 Mar 1990 26 Mar 1990	6407	Hatch Death
141	?	10 Mar 1990	62	87	BATONROUG	10 Mar 1990 22 Mar 1990	6408	Hatch Death
142	?	12 Apr 1991	52	49	SAN ANTON KARGER J	12 Apr 1991 24 Apr 1991 ~ Jun 1991	911424 _____	Hatch Transfer Death
143	?	13 Apr 1991	52	49	SAN ANTON KARGER J	13 Apr 1991 24 Apr 1991	910442 _____ ltf	Hatch Transfer
144	?	25 Apr 1991	62	87	BATONROUG	25 Apr 1991 4 May 1991	6723	Hatch Death
145	?	27 Apr 1991	58	81	DALLAS	27 Apr 1991 27 Apr 1991	917089	Hatch Death
146	F	27 Apr 1991	58	81	DALLAS MCCOY T	27 Apr 1991 16 Mar 1992	917090 _____ ltf	Hatch Transfer
147	F	29 Apr 1991	58	81	DALLAS MCCOY T	29 Apr 1991 16 Mar 1992	917091 _____ ltf	Hatch Transfer
148	M	17 May 1991	64	48	LAKEBUENA SHARPE M CROFT L ST LOUIS	17 May 1991 ~ Jul 1991 ~ 1993 11 Jul 1996 23 Jul 2000	210507 _____ _____ 960706	Hatch Transfer Transfer Transfer Death
149	F	18 May 1991	64	48	LAKEBUENA SHARPE M CROFT L GILLIS	18 May 1991 31 Mar 1993 ~ 1993 ~ 1996	210509 _____ _____ 108 ltf	Hatch Transfer Transfer Transfer
150	F	19 May 1991	64	48	LAKEBUENA SHARPE M	19 May 1991 31 Mar 1993	210510 _____ ltf	Hatch Transfer
151	F	27 Sep 1991	64	48	LAKEBUENA FRESNO	27 Sep 1991 23 Apr 1992 18 Jul 1995	210903 6034	Hatch Transfer Death
152	F	28 Apr 1992	64	48	LAKEBUENA SHARPE M	28 Apr 1992 31 Mar 1993	220413 _____ ltf	Hatch Transfer
153	M	28 Apr 1992	64	48	LAKEBUENA SHARPE M	28 Apr 1992 31 Mar 1993	220412 _____ ltf	Hatch Transfer

154	M	28 Apr 1992	64	48	LAKEBUENA SHARPE M	28 Apr 1992 31 Mar 1993	220411 _____	Hatch lft Transfer
155	M	13 Jun 1992	135	83	SEATTLE CRAWFRD W	13 Jun 1992 3 Dec 1992	920370 _____	Hatch Transfer
156	F	13 Jun 1992	135	83	SEATTLE CRAWFRD W	13 Jun 1992 10 Jun 1993	920371 _____	Hatch Transfer
157	?	12 Jul 1992	95	88	KNOXVILLE DENVER	12 Jul 1992 22 Apr 1999	337 990191	Hatch Transfer
158	F	14 Jul 1992	95	88	KNOXVILLE WORLDBIRD	14 Jul 1992 5 Feb 1993	338 338	Hatch Transfer
159	?	27 Jul 1992	58	81	DALLAS	27 Jul 1992 31 Jul 1992	927797	Hatch Death
160	?	22 Sep 1992	52	49	SAN ANTON	22 Sep 1992 23 Sep 1992	920923	Hatch Death
161	?	23 Sep 1992	52	49	SAN ANTON	23 Sep 1992 23 Sep 1992	920924	Hatch Death
162	M	8 Mar 1993	52	49	SAN ANTON CLEARSPR	8 Mar 1993 28 Sep 1993	930311 76	Hatch lft Transfer
163	M	17 Apr 1993	43	131	JONSSON CROFT L PITRE BOYLE	17 Apr 1993 ~ 1 Dec 1998 ~ Jan 2001 15 Jun 2001	_____ _____ _____ _____	Hatch Transfer Transfer lft Transfer
164	F	20 Jun 1993	64	48	LAKEBUENA CINCINNAT CRAWFRD W KNOXVILLE	20 Jun 1993 14 Jul 1993 19 Jul 1993 15 May 2003	230658 293129 _____ UNK	Hatch Transfer Transfer Transfer
165	?	22 Jun 1993	64	48	LAKEBUENA	22 Jun 1993 25 Jun 1993	230661	Hatch Death
166	?	23 Jun 1993	64	48	LAKEBUENA CINCINNAT	23 Jun 1993 14 Jul 1993	230663 293130	Hatch Transfer
167	?	4 Sep 1993	64	48	LAKEBUENA CINCINNAT CRAWFRD W	4 Sep 1993 26 Oct 1993 27 Oct 1993	230905 293290 _____	Hatch Transfer Transfer
168	?	4 Sep 1993	64	48	LAKEBUENA	4 Sep 1993 10 Sep 1993	230906	Hatch Death

169	F	~ 1993	UNK	UNK	BATONROUG SLAUGHTER DREHER PA	~ 1993 10 Sep 1996 10 Sep 1996 16 Jan 1997	_____ _____ 96170	Hatch Transfer Transfer Death
170	M	~ 1993	UNK	UNK	BATONROUG SLAUGHTER DREHER PA WORLDBIRD	~ 1993 10 Sep 1996 10 Sep 1996 7 Jan 1998	_____ _____ 96169 980002	Hatch Transfer Transfer Transfer
171	F	~ Jan 1994	193	119	GILLIS CROFT L ST LOUIS	~ Jan 1994 ~ 1995 11 Jul 1996 8 Nov 2000	_____ _____ 960707	Hatch Transfer Transfer Death
172	F	~ Jun 1998	194	196	GILLIS	~ Jun 1998	_____ ltf	Hatch
173	F	~ 1994	43	131	JONSSON CROFT L	~ 1994 2 Feb 1995 3 Feb 1995	_____ _____ _____	Hatch Transfer Death
174	M	23 Mar 1994	162	139	CLEARSPR COLUMBIA	23 Mar 1994 6 Aug 1998	95 6630	Hatch Transfer
175	M	24 Mar 1994	162	139	CLEARSPR NYP-WASH CLEARSPR	24 Mar 1994 8 Jun 1995 8 Jul 1997	_____ 213649 _____ ltf	Hatch Transfer Transfer
176	M	28 Apr 1994	64	48	LAKEBUENA JONSSON NYP-WASH	28 Apr 1994 11 Oct 1994 8 Nov 1995	240419 240419 213705	Hatch Transfer Transfer
177	?	29 Apr 1994	64	48	LAKEBUENA	29 Apr 1994 5 May 1994	240421	Hatch Death
178	F	29 Jul 1994	193	119	GILLIS FRESNO	29 Jul 1994 29 Oct 1995	_____ 950222	Hatch Transfer
179	?	8 Apr 1995	43	131	JONSSON CARVACHO	8 Apr 1995 ~ May 1995	_____ _____ ltf	Hatch Transfer
180	M	9 Jun 1995	95	88	KNOXVILLE JONSSON	9 Jun 1995 8 May 1996 15 Mar 1998	542 542	Hatch Transfer Death
181	?	17 Jun 1995	64	48	LAKEBUENA WORLDBIRD	17 Jun 1995 24 Aug 1999 ~ 6 Sep 2000	250630 990020	Hatch Transfer Death
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
183	F	~ 1996	UNK	UNK	CROFT L	~ 1996	_____		Hatch
					JONSSON	23 Aug 1996	_____		Transfer
						5 Apr 1997			Death
184	?	~ 1996	43	131	JONSSON	~ 1996	_____		Hatch
					CRAWFRD W	14 Oct 1996	_____		Transfer
						9 Jan 1997			Death
185	F	14 May 1996	162	139	CLEARSPR	14 May 1996	_____		Hatch
					JONSSON	7 Nov 1996	_____		Transfer
					CROFT L	~ 1 Dec 1998	_____		Transfer
					PITRE	~ Jan 2001	_____		Transfer
					BOYLE	15 Jun 2001	_____	ltf	Transfer
186	M	7 Jun 1996	UNK	UNK	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
187	?	12 Jun 1996	64	48	LAKEBUENA	12 Jun 1996	260609		Hatch
						14 Jun 1996			Death
188	?	16 Jun 1996	52	49	SAN ANTON	16 Jun 1996	960674		Hatch
						19 Aug 1996			Death
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
190	M	29 May 1997	162	139	CLEARSPR	29 May 1997	_____		Hatch
					FOSKY	~15 Sep 1997	_____	ltf	Transfer
191	F	30 May 1997	162	139	CLEARSPR	30 May 1997	_____		Hatch
					NZP-WASH	25 Sep 1997	213963		Transfer
192	M	28 Jan 1998	162	139	CLEARSPR	28 Jan 1998	_____		Hatch
					SEDGWICK	24 Jun 1999	8965		Transfer
193	M	~ 1980	21	22	GLENDALE	~ 1980	_____		Hatch
					DIAZ	~ 1981	_____		Transfer
					GILLIS	~ 1992	102	ltf	Transfer
194	M	~ 1974	WILD	WILD	S.AMERICA	~ 1974	NONE		Capture
					CROFT L	~ 1975	_____		Transfer
					GILLIS	~ 1996	107	ltf	Transfer
195	M	11 Oct 1997	194	196	GILLIS	11 Oct 1997	109	ltf	Hatch

196	F	~ 1979	WILD	WILD	S.AMERICA BELLBIRD GUNDERSON GILLIS CROFT L GILLIS	~ 1980 ~ 1980 ~ 1981 ~ Jun 1995 ~ Sep 1995 ~ 1996	NONE _____ _____ 106 _____ 106	Capture Transfer Transfer Transfer Transfer lft Transfer
197	M	~ May 1996	148	171	CROFT L GILLIS	~ May 1996 ~ Jan 2001	_____ _____	Hatch lft Transfer
198	?	11 Oct 1997	194	196	GILLIS	11 Oct 1997 11 Oct 1997	_____	Hatch Death
199	?	28 Jun 1998	176	191	NZP-WASH	28 Jun 1998 30 Jun 1998	214053	Hatch Death
200	?	28 Jun 1998	176	191	NZP-WASH CRAWFRD W	28 Jun 1998 19 Nov 1998	214502 _____	Hatch Transfer
203	?	23 May 1999	176	191	NZP-WASH CRAWFRD W	23 May 1999 27 Oct 1999 ~ 2000	214318 _____	Hatch Transfer Death
204	F	24 May 1999	176	191	NZP-WASH CRAWFRD W QUEBEC	24 May 1999 27 Oct 1999 4 Oct 2002	214319 _____ A25004	Hatch Transfer Transfer
205	?	7 Oct 1998	148	171	ST LOUIS ROCHESTER KNOXVILLE	7 Oct 1998 8 Apr 1999 11 Nov 2002	981084 104865 2543	Hatch Transfer Transfer
206	M	8 Oct 1998	148	171	ST LOUIS WILD WRLD	8 Oct 1998 3 Mar 1999	982001 6119	Hatch Transfer
207	?	26 Jul 1999	148	171	ST LOUIS ORLANDO	26 Jul 1999 6 Jan 2000	990781 RLS250	Hatch Transfer
208	?	~ Jan 1999	162	139	CLEARSPR CHOULES	~ Jan 1999 5 Mar 1999 ~ Jun 1999	_____ _____ _____	Hatch Transfer Death
209	?	26 Jun 1999	92	182	CALDWELL	26 Jun 1999 27 Jun 1999	104401	Hatch Death
210	?	26 Jun 1999	92	182	CALDWELL	26 Jun 1999 28 Jun 1999	104400	Hatch Death
211	?	~ Jan 1994	71	69	LANNOM	~ Jan 1994 ~ 1994	_____	Hatch Death



212	?	~ Jun 1998	194	196	GILLIS	~ Jun 1998 _____ ~ Jun 1998		Hatch Death
213	M	~ Jun 1998	193	119	GILLIS	~ Jun 1998 _____	ltf	Hatch
214	?	25 Apr 2000	176	191	NZP-WASH	25 Apr 2000 214482 5 May 2000		Hatch Death
215	?	27 Apr 2000	176	191	NZP-WASH	27 Apr 2000 214483 2 May 2000		Hatch Death
216	M	15 Jun 2000	176	191	NZP-WASH ALEXANDRI	15 Jun 2000 214563 16 Nov 2000 AV0019		Hatch Transfer
217	?	19 Jun 2000	176	191	NZP-WASH	19 Jun 2000 214567 27 Jun 2000		Hatch Death
218	M	29 May 2001	176	191	NZP-WASH CLEARSPR BENNETT METROZOO	29 May 2001 214786 16 Nov 2001 _____ ~ May 2002 _____ 17 Feb 2003 B30023		Hatch Transfer Transfer Transfer
219	?	14 Oct 1999	148	171	ST LOUIS ORLANDO	14 Oct 1999 991015 6 Jan 2000 RLS251 25 Sep 2003		Hatch Transfer Death
220	?	15 Aug 2001	163	185	BOYLE	15 Aug 2001	60 ltf	Hatch
221	M	10 Oct 2001	163	185	BOYLE QUEBEC	10 Oct 2001 61 20 Apr 2002 A25002		Hatch Transfer
222	M	12 Oct 2001	163	185	BOYLE QUEBEC	12 Oct 2001 63 20 Apr 2002 A25003 9 Apr 2003		Hatch Transfer Death
223	F	~ 1970	WILD	WILD	S.AMERICA CHASE COLUMBIA	~ 1974 NONE ~ 1974 _____ 10 May 1974 SJO281 9 Feb 1989		Capture Transfer Transfer Death
225	F	28 Apr 2002	176	191	NZP-WASH JACKSONVL	28 Apr 2002 214880 12 Nov 2002 602376		Hatch Transfer
226	F	28 Apr 2002	176	191	NZP-WASH METROZOO	28 Apr 2002 214881 14 Nov 2002 B20257		Hatch Transfer
227	M	~ Jun 1996	228	UNK	WALSRODE QUEBEC	~ Jun 1996 _____ 11 Apr 2002 A25001		Hatch Transfer

228	M	~ Jun 1996	123	125	WALSRODE	~ Jun 1996 ~15 May 2000	C7626	Hatch Death
229	?	25 May 1988	95	88	KNOXVILLE	25 May 1988 6 Jun 1988	227	Hatch Death
230	?	8 May 1990	95	88	KNOXVILLE	8 May 1990 28 Aug 1990	228	Hatch Death
231	?	~ 1971	WILD	WILD	S.AMERICA LOSANGELE	~ Jan 1972 22 May 1972 23 May 1973	NONE 06763	Capture Transfer Death
232	M	~ 1987	UNK	UNK	LAVAL QUEBEC	~ 1988 12 Feb 1988 3 Jul 1992	895006	Transfer Transfer Death
233	F	~ 1987	UNK	UNK	LAVAL QUEBEC	~ 1988 12 Feb 1988 ~ 1990		Transfer Transfer Death
234	M	15 May 2002	216	MULT	ALEXANDRI	15 May 2002 26 Jun 2002	AV0072	Hatch Death
235	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002 14 Apr 2002	65	Hatch Death
236	?	2 Apr 2002	163	185	BOYLE	2 Apr 2002 3 May 2002	66	Hatch Death
237	?	7 May 2002	163	185	BOYLE	7 May 2002 2 Jun 2002	67	Hatch Death
238	?	8 May 2002	163	185	BOYLE	8 May 2002 10 May 2002	68	Hatch Death
239	M	13 May 2003	176	191	NZP-WASH AUDUBON	13 May 2003 6 Nov 2003	215078 101104	Hatch Transfer
240	F	19 Aug 2003	186	226	METROZOO DREHER PA	19 Aug 2003 11 Feb 2004	B30232 UNK	Hatch Transfer
241	?	19 Aug 2003	186	226	METROZOO	19 Aug 2003 22 Aug 2003	B30233	Hatch Death
242	F	16 Oct 2003	192	88	SEDGWICK	16 Oct 2003	10649	Hatch
=====								
TOTALS: 76.75.88 (239)								



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## CURRENT HOLDING INSTITUTIONS

ALEXANDRI	Alexandria Zoological Park 3016 Masonic Drive Alexandria, LA 71301-4240
AUDUBON	Audubon Zoo PO Box 4327 New Orleans, LA 70178
BOYLE	Rob Boyle 1331 Colborne Street West Brantford Ontario, Canada N3T 5L7
CALDWELL	Caldwell Zoo P.O. Box 4280 Tyler, TX 75712
CINCINNAT	Cincinnati Zoo & Botanical Garden 3400 Vine Street Cincinnati, OH 45220-1399
COLUMBI	Riverbanks Zoological Park P.O. Box 1060 Columbia, SC 29202
CRAWFRD	World Bird Sanctuary 125 Bald Eagle Ridge Rd Valley Park, MO 63088
DALLAS	Dallas Zoo 650 So. R.L. Thorton Fwy. Dallas, TX 75203-3013
DENVER	Denver Zoological Gardens 2300 Steele St. Denver, CO 80205
DREHER PA	Palm Beach Zoo at Dreher Park 1301 Summitt Blvd West Palm Beach, FL 33405
FRESNO	Chaffee Zoological Gardens of Fresno 894 West Belmont Ave. Fresno, CA 93728-2891
JACKSONVL	Jacksonville Zoological Gardens 8605 Zoo Pkwy Jacksonville, FL 32218
KANSASCTY	Kansas City Zoological Gardens 6700 Zoo Dr. Kansas City, MO 64132
KNOXVILLE	Knoxville Zoological Gardens P.O. Box 6040 Knoxville, TN 37914

METROZOO	Miami Metrozoo 12400 SW 152nd St One Zoo Blvd Miami, FL 33177
NZP-WASH	Smithsonian National Zoological Park 3001 Connecticut Ave. NW Washington DC, 20008
ORLANDO	Sea World Orlando 7007 Sea World Drive Orlando, FL 32821-8097
QUEBEC	Jardin Zoologique Du Quebec 9141 Avenue Du Zoo Charlesbourg Quebec, G1G 4G4 Canada
RIO GRAND	Rio Grande Zoological Park 903 Tenth ST. SW Albuquerque, NM 87102
SAN ANTON	San Antonio Zoological Gardens & Aquarium 3903 North St. Mary's Street San Antonio, TX 78212
SEDGWICK	Sedgwick County Zoo 5555 Zoo Blvd Wichita, KS 67212-2212
TULSA	Tulsa Zoo and Living Museum 5701 E. 36 Street North Tulsa, OK 74115
WILD WRLD	Wildlife World Zoo Northern Ave. @ State Rt. 303 Litchfield Park, AZ 85340
WORLDBIRD	Steve Martin Natural Encounters, Inc. 9014 Thompson Nursery Rd Lake Wales, FL 33853 6700 Zoo Dr.





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