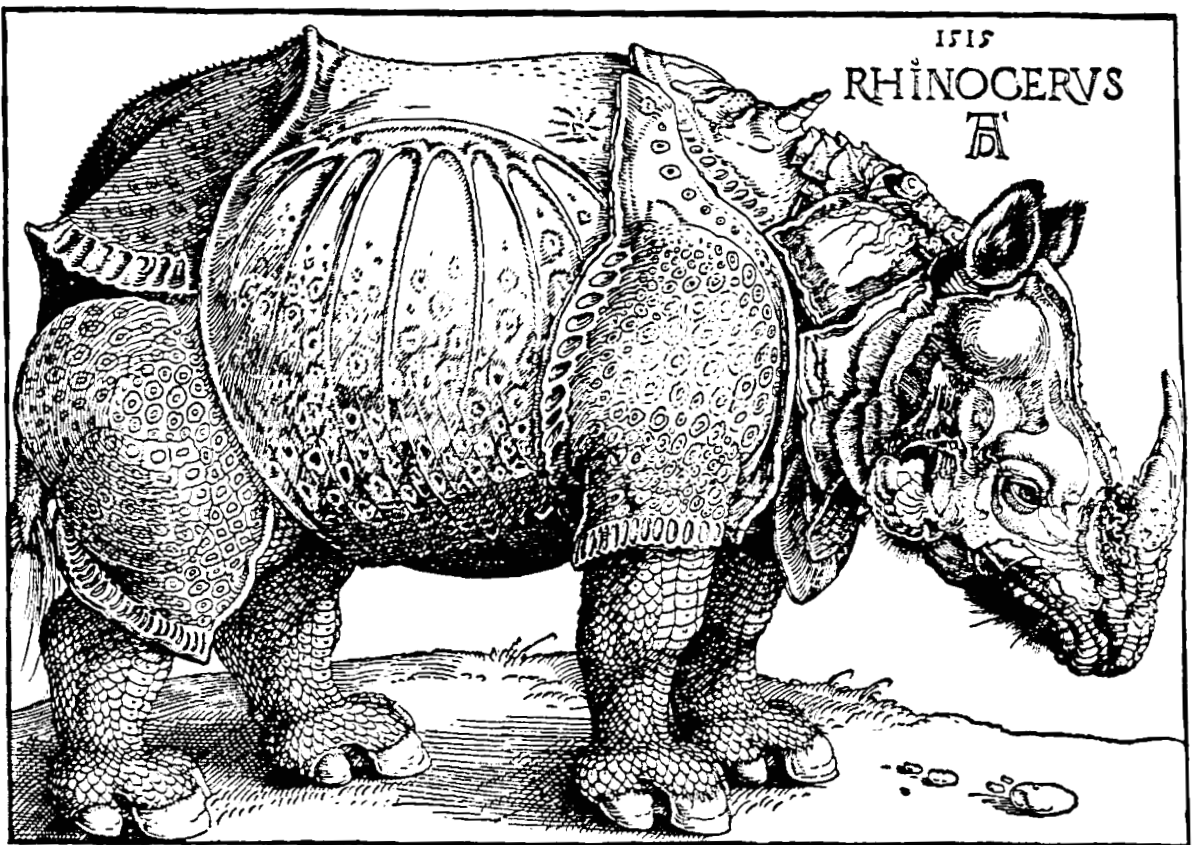


# THE RHINOCEROS IN CAPTIVITY

by L.C. Rookmaaker



SPB Academic Publishing bv

# **THE RHINOCEROS IN CAPTIVITY**

**A list of 2439 rhinoceroses kept from  
Roman times to 1994**

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## 1. Introduction

'To see the Rhinoceros (a friend told me), I decided to take a walk.' The German author C.F. Gellert wrote these lines when a rhinoceros was being shown in the town of Leipzig in 1747. How many people have taken such a walk and returned home, thrilled and educated by seeing a rhinoceros in a cage, or a baby rhinoceros jumping around the enclosure, or a group of white rhinos peacefully grazing in a paddock? The rhinoceros has always fascinated us by its prehistoric bulk, its massive power and its lack of conventional beauty. Through the ages, many individual rhinoceroses have been kept by human beings, sometimes to entertain, sometimes to educate.

It was my aim to collect information about each individual rhinoceros which has been

kept in captivity from the earliest times to the present. This is, of course, a quite impossible task, because I necessarily had to depend on the records left by our ancestors. I had three reasons for attempting to discover some details about every single rhinoceros. First, a rhinoceros exhibited in a zoo potentially helps to increase our knowledge of the species. How much would we know today about the reproductive behavior, morphological variations or anatomical details of rhinoceroses if we had only seen the animals in the wild? How many people have become interested in the species after observing a rhinoceros in an enclosure at a zoo? I am not really sure, but perhaps the fact that I saw a black rhinoceros at Artis Zoo in Amsterdam or an In-



*Fig. 1. Sumatran rhinoceros 'Mahatu' at Los Angeles Zoo, November 1992.*

dian rhinoceros in Antwerp when I was a child, subconsciously kindled my decision to study the animal, and many other people may have had similar experiences. The second reason for studying the captive population of rhinoceroses is the alarming decline of the animals in the wild. If the rhinoceros would disappear from its original habitat through poaching and human pressures, there is at least a chance of keeping the species alive in captivity. The rhinoceros is generally a slow breeder, and it needs an all-out effort to maintain even existing numbers. It is possible that history can teach us valuable lessons so that we can avoid future mistakes. The third reason is simply a personal fascination with the historical record. Much of the information in this book is elusive, but it has given me great pleasure to try to discover as many details as possible.

The term 'captivity' is interpreted in rather a broad sense. It is obvious that a list of animals in a captive situation must include those kept, for example, in zoological gardens, safari parks, travelling menageries, circuses, and private collections. However, the definition is less clear when rhinos are kept within their own area of distribution. When, for instance, a group of rhinos is kept in an enclosure of a thousand acres, this group would obviously be captive if the enclosure were located in Europe or America. However, if that enclosure were in Africa or Asia, bordering a national park, there could be disagreement as to whether the animals kept there would be captive, semi-wild or wild. It is very difficult to judge each situation on its own merits without personal knowledge of the area or the background of the case. I have been liberal in including some information about such groups of rhinos kept on private land within the area of distribution of the species, although, generally, the animals have not been counted in the totals.

The rhinoceros has been well served by historians and record keepers. In the present survey, I could build on a solid foundation consisting of information contained in the literature, and, in particular, the papers by Reynolds and the studbooks, as well as personal communications with a great number of people interested in animals and the history of animal exhibits. Richard J. Reynolds III of Atlanta, Georgia, is a retired lawyer with a particular interest in circuses and also in other ways of exhibiting wild animals. He compiled all the available records on the rhinoc-

eros in captivity and published the results in a series of papers in the *International Zoo Yearbook* of London in the early 1960s. Why he decided to focus on the rhinoceros in favor of elephants or giraffes (although he also wrote about those animals), remains a mystery in his publications. My own correspondence with Richard Reynolds started in about 1973 and has continued ever since. Many valuable data and much encouragement have reached me from the other side of the Atlantic, thanks to our shared interest. Reynolds studied the history of circus owners in the United States, which I have always found to be a particularly difficult and elusive subject. All the facts about rhinoceroses in American circuses or travelling menageries have been provided by Reynolds from his various sources.

The studbooks of the various species provided data for rhinoceroses that, more recently, have been kept in a captive situation. The studbook for African black and white rhinoceroses has been kept by Berlin Zoo since 1966, that for the Indian rhinoceros by Basel Zoo since the late 1960s, and that for the Sumatran rhinoceros by the International Rhino Foundation. These studbooks are published with a certain regularity. They contain many valuable data on the specimens that were alive in the period during which the studbook was kept. There is a small gap between the publication of the lists of captive rhinos by Reynolds in 1960 and 1964, and the start of the studbooks. A few specimens which arrived and died during those few years in the 1960s were not recorded in either of these sources.

In 1993, I tried to compile the information contained in these various sources: the studbooks, the papers by Reynolds, the literature in general, and personal communications. The



Fig. 2. Pair of White rhinoceros at Berlin Zoo, 26th June 1965.



Fig. 3. Black rhinoceros 'Toto' at St Louis, 1993.

next step was to write to all collections of animals which had exhibited the rhinoceros, in order to check these data and possibly add to my information. In October 1993, therefore, I sent out 572 general inquiries regarding the completion and rectification of the available data. Of these inquiries, 267 were sent to collections known to have shown at least one rhinoceros: I received 109 replies (41%). A further 305 letters were sent to places where a rhinoceros could have been exhib-

ited, but for which no information was available. I received 75 replies (25%) from this latter category, including a few with information on hitherto overlooked specimens.

When I had compiled all this information, I found that there were still quite a number of questions and uncertainties. During the latter stages, I have been greatly assisted by Sgt. Marvin Jones, the then Registrar of San Diego Zoo. He visited many collections all over the world and studied the local records, and his encyclopedic mind can still recall some specific data from different specimens. He has contributed enormously to filling in the blanks. In various other ways, I have also benefitted from Ken Kawata's knowledge of Japanese zoos, from Clin Keeling's of historical records, and from John Edwards' of European zoos and photographic records.

The present list has details of about 2439 individual specimens belonging to one of the five living species of rhinoceros (Table 1). The Indian rhinoceros (*Rhinoceros unicornis*) has been consistently exhibited in small numbers from the 16th century up to the present. The black rhinoceros (*Diceros bicornis*) was first



Fig. 4. Indian rhinoceroses at Basel Zoo.



Fig. 5. White rhinoceroses at Whipsnade

imported in 1868, and has been shown regularly ever since. The Javan rhinoceros (*Rhinoceros sondaicus*) is a very rare exhibit, while the Sumatran species (*Dicerorhinus sumatrensis*) was imported during the second half of the 19th century, and again in recent years. The white rhinoceros (*Ceratotherium simum*) is now the most common species, but this is a recent development since the first specimen was only seen in 1946.

The rhinoceros is not the most photogenic of animals, and, as such, it is remarkable that so many images have been taken throughout the years. In the present work, a selection of the available material, both old and new, has been made. Some of the pictures are of rather poor quality, and they have only been included to complete the historical record and to show what has been preserved. Most of the recent pictures were supplied by zoos in response to the questionnaire, and I am very grateful for their cooperation and interest.

### What to expect

You should be able to find some information about each and every rhinoceros ever kept in captivity. Actually, I would prefer to use the English equivalent of the German 'Menschen-obhut', 'in human hands', or 'under human care', in order to avoid the cage or enclosure idea associated with captivity. There is no limit to time or place. It should not matter whether the rhinoceros was kept in 2000 BC or in 1990 AD, in China, Siberia, Iceland or the Cape of Good Hope. You can expect to find the date of arrival, date of death, gender, name and most important happenings during its life. If the zoo in, for example, Amsterdam or Rangoon exhibited rhinos, there is also information on which species, how many,

when, etc. If you saw a rhinoceros in a 'Tarzan' movie, it could be that this list will give you some of its background.

Of course, this book will fall far short of your (and my) expectations. Some rhinoceroses, probably quite a large number in fact, do not figure here, simply because nobody recorded their presence on paper or in art, while others have simply escaped my notice. For the historian or scientist it is a sad fact that it is very hard to cover any subject completely, unless it is very carefully and precisely demarcated. I would be pleased to hear about any shortcomings in this list.

Kees Rookmaaker

Easter 1997

### How to use this book

#### Arrangement of records

There are five living species of rhinoceros. The records of captive specimens of each species are arranged each in a separate chapter. Some records from Roman times and from other old civilizations are mentioned in Chapter 3. A few statistics on demography and reproduction are summarized in Chapter 2.

Each of the Chapters 4 to 8 on the five species starts with a short introduction on the maintenance of that particular species, with information on its history in captivity, sub-specific classification, origin of imports and longevity. The introduction in each chapter is followed by:

1. A table of *Collections where the species has been exhibited*, listing the number of collections by continent and country. This table also shows when and in which country the animal was first exhibited in each continent, and in which collection in each country. The place with the largest number of rhinos throughout the ages has also been listed, but only when there were more than five specimens; smaller lists have been deleted.
2. A table of *Population changes* showing the number of specimens imported, born, and those that died within each decennium since its first exhibition. Changes in the captive population can easily be studied from these tables.
3. A *Chronological list of all known specimens* giving the historical details of each specimen in abbreviated form. The main list is arranged by collection, and specimens which were fre-



stated as, 'To ...' / 'From ...' with the name of the town. If it was imported from the wild, this is always written in full to avoid confusion ('Imported from...', 'Caught in ...').

*† in the entry of an individual rhinoceros after a date means: the animal died at that time in that collection.*

### Acknowledgments

In many ways, this book is the culmination of a long standing interest. Throughout the years, I have received much encouragement and active assistance from a number of people with similar ideas. Although there is little reward in being mentioned in a section of acknowledgments, I hope that it will give them an idea of the extent of my gratitude. In alphabetical order, my thanks go to Peter van Bree (Amsterdam, The Netherlands), the late Tim H. Clarke (Ashford, UK), Michael Dee (Los Angeles, USA), John Edwards (London, UK), Marvin L. Jones (San Diego, USA), Ken Kawata (Kansas City, USA), Clin Keeling (Guildford, UK), Heinz-Georg Klös (Berlin, Germany), Dennis R.H. Levy (Bournemouth, UK), Esmond Bradley Martin (Nairobi, Kenya), Jim Monson (Tourette-Levens, France), Florence Pieters (Amsterdam, The Netherlands), Herman Reichenbach (Hamburg, Germany), Richard J. Reynolds (Atlanta, USA), Lothar Schlawe (Berlin, Germany), Marjorie Shaw (San Diego, USA), Kathleen Tobler (Basel, Switzerland). Without the patience and understanding of these people in my continuous quest for more data, this book would look very different today.

Special assistance in specific cases was readily given by many people, among whom I am happy to mention: John Bank (Lorena, Texas, USA), Susanta Bhattacharyya (Zoological Gardens, Calcutta, India), Bernhard Blaszkiewicz (Tierpark Berlin-Friedrichsfelde, Germany), L.E.M. de Boer (Apenheul, Apeldoorn, The Netherlands), Herb Clement (former director of Central Park Zoo, New York, USA), D.H.M. Cumming (WWF Multispecies Animal Production Systems Project, Harare, Zimbabwe), J.C. Daniel (former Curator of Bombay Natural History Society, India), F. Dieterlen (Staatliches Museum für Naturkunde, Stuttgart, Germany), T.J. Foose (International Rhino Foundation, Columbus, USA), Gwyn Griffiths (Crewe, UK), Barbara Herzig (Naturhistorisches Museum, Vienna, Austria), Bengt

Holst (Copenhagen Zoo, Denmark), D. Philip King (Assiniboine Zoo Park, Winnipeg, Canada), Andrew Kitchener (National Museums of Scotland, Edinburgh, UK), Georges Lenglet (Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium), the Assistant Director of the Government Museum (Madras, India), P. Newbegin (Help A Child of India, Bangalore, India), G. Nogge (Cologne Zoo, Germany), Julio Perla (Monkey Jungle, Miami, USA), Mark Sorrell (Benfleet, UK), Donald W. Wixom (Sunset Zoological Park, Manhattan, USA), F.J. Zeehandelaar (New Rochelle, USA).

Many people took the time and trouble to respond to my questionnaire of captive rhinos in 1993. In some cases, those responsible obviously went to a lot of trouble to photocopy the available material, look for old records, or find suitable pictures. I trust this book will show them that their time was well spent, and that hopefully I have done justice to their records. At the end of this chapter, there is a list of all collections that exhibited a rhinoceros, in which those that responded to the questionnaire are marked by an \*, a simple mark for special gratitude. The staff of those collections that never exhibited a rhinoceros, but who still wrote to me, are listed separately below.

Mistakes will certainly have been made in the transfer of information or on decisions about names and dates. I take the responsibility for all of them.

### List of collections replying in 1993-1994 that they never owned a rhinoceros:

Austria	Innsbruck, Alpen Zoo
Belgium	Ieper, Bellewaerde Park
Belize	Belize City, The Belize Zoo
Bermuda	Bermuda Aquarium, Natural History Museum and Zoo
Canada	Bowmanville, Bowmanville Zoo Edmonton, Valley Zoo Charlesbourg, Jardin Zoologique du Quebec Shubenacadie, Provincial Wildlife Park Vancouver, Stanley Park Zoological Gardens
Chile	Santiago, Santiago Zoo
Czech Republic	Plzen, Zoologicka a Botanicka Zahrada
Denmark	Odense, Odense Zoo
Dubai	Dubai, Zoological Gardens
Germany	Bochum, Tierpark

Finland	Rostock, Zoologischer Garten		Colwyn Bay, Welsh Mountain Zoo
France	Helsinki Zoo		Cricket St. Thomas, Westcountry Wildlife Park
	Montpellier, Parc de Lunaret		Dudley, Dudley & West Midlands Zoological Society
	Mulhouse, Parc Zoologique et Botanique		Great Yarmouth, Thrigby Hall Wildlife Gardens
Ghana	Strasbourg, Parc Zoologique Orangerie		Huntingdon, Hamerton Wildlife Centre
Hong Kong	Kumasi, Kumasi Zoological Gardens		Matlock, Riber Castle Wildlife Park
India	Zoological and Botanical Gardens		Twycross, Twycross Zoo
	Ahmedabad, Kamla Nehru Zoological Garden		Abilene, TX, Abilene Zoological Society
Israel	Haifa, Biological Institute	USA	Apple Valley, MN, Minnesota Zoo
Netherlands	Amersfoort, Dierenpark		Como, MN, St. Paul's Zoo
	Apeldoorn, Apenheul		Erie, PA, Erie Zoo
	Rhenen, Ouwehands Dierenpark		Grand Rapids, MI, John Ball Zoological Garden
Russia	Ekaterinburg, Zoopark		Naples, FL, Jungle Larry's Zoological Park
	Kishinev, Zoo		Providence, RI, Roger Williams Park Zoo
	Novosibirsk, Zoo		Racine, WI, Racine Zoological Society
Saudi Arabia	Riyadh, King Khalid Wildlife Research Center		Roanoke, VA, Mill Mountain Zoo
Slovakia	Bojnice, Zoological Garden		Rochester, NY, Seneca Park Zoo
Spain	Cantabria, Zoologico de Santillana del Mar		Santa Ana, CA, Santa Ana Zoo
	Gran Canaria, Los Palmitos, Maspalomas		Seattle, WA, Woodland Park Zoological Gardens
	Jerez de la Frontera, Zoo Jerez		Syracuse, NY, Burnet Park Zoo
Sweden	Eskilstuna, Parken Zoo		Tacoma, WA, Point Defiance Zoo & Aquarium
Switzerland	Gossau, Walter Zoo		Utica, NY, Utica Zoo
Trinidad	Port-of-Spain, Zoological Society of Trinidad & Tobago		West Palm Beach, FL, Dreher Park Zoo
Ukraine	Nikolaev, Nikolaev Zoo		
United Kingdom	Alfriston, Drusillas Park		
	Banham, Banham Zoo		
	Blair Drummond, Safari and Leisure Park		
	Chessington, World of Adventure		
		Uzbekistan	Tashkent, Zoopark

### List of collections which exhibited a rhinoceros

#### Arranged by country

Species exhibited are abbreviated as follows:

CS	<i>Ceratotherium simum simum</i> (Southern White rhino)
CSC	<i>Ceratotherium simum cottoni</i> (Northern White rhino)
DB	<i>Diceros bicornis</i> (Black rhino)
DS	<i>Dicerorhinus sumatrensis</i> (Sumatran rhino)
RS	<i>Rhinoceros sondaicus</i> (Javan rhino)
RU	<i>Rhinoceros unicornis</i> (Indian rhino)

X stands for specimens of unknown species listed in Chapter 3.

The number of specimens exhibited follows the abbreviated species name in the last column.

\* Collections with this mark responded to the 1993 questionnaire or have otherwise volunteered information about their rhinoceroses.

Country/place	Name of collection	Species exhibited
Abu Dhabi, UAE		
Al Ain	Zoological Park and Aquarium	CS 3, CSC 1
Afghanistan		
Kabul	Coll. Amir Abdul Rahmann	DS 1

<i>Country/place</i>		<i>Name of collection</i>	<i>Species exhibited</i>
<b>Argentina</b>			
Buenos Aires		Circo Fuentes Gasca	CS 1
Buenos Aires	*	Jardim Zoologico	DB 8
La Plata		Zoologico La Plata	CS 2, DB 1
Margarita		Unidentified	CS 3
Mendoza		Zoological Gardens	DB 1
<b>Australia</b>			
Adelaide	*	Adelaide Zoo	DB 3, RS 1
Dubbo	*	Western Plains Zoo	CS 12, DB 15
Melbourne		Zoological Board of Victoria	DB 3
Perth	*	Zoological Gardens	CS 2, DB 1, DS 1
Queensland		Ashton's Animal Kingdom	DB 1
Sydney	*	Taronga Zoo	CS 2, DB 23
Werribee	*	Zoological Gardens	CS 3
Winnellie		Tipperary Sanctuary	CS 2
<b>Austria</b>			
Salzburg	*	Salzburger Tiergarten Hellbrun	CS 4
Vienna	*	Schönbrunner Tiergarten	DB 5, RU 1, RS 1, DS 2
<b>Bangladesh</b>			
Dhaka		Coll. Matthew Day	RU 1
<b>Belarus</b>			
Grodno		Grodno Zoo	DB 1
<b>Belgium</b>			
Antwerp	*	Jardin Zoologique	CS 5, CSC 2, DB 5, RU 13, DS 4
Genk		Limburgse Zoo Zwartberg	CS 6
Planckendael		see Antwerp	
Sprintmont		Unidentified	CS 1
<b>Brazil</b>			
Belo Horizonte	*	Fundação Zoo-Botanica	CS 2
Porto Alegre		Jardim Zoologico	DB 1
Rio de Janeiro	*	Jardim Zoologico	CS 2, DB 5
Sao Leopoldo		Parque Zoologico do Rio Grande	CS 2, DB 3
Sao Paulo	*	Fundação Parque Zoologico	CS 2, DB 4, RU 1
<b>Bulgaria</b>			
Sofia		Zoological Gardens	CS 3
<b>Burma</b>	see	Myanmar	
<b>Cambodia</b>			
Angkor-Vat		Early civilization	RS ?
<b>Canada</b>			
Aldergrove		Vancouver Game Farm	CS 5
Calgary	*	Calgary Zoological Society	CS 3
Edmonton		Alberta Game Farm	CS 2
Granby	*	Société Zoologique de Granby	CS 2, DB 7
Hemingford		Parc Safari Africain	CS ?
Penticton		Okanangan Game Farm	CS 1
Rockton	*	African Lion Safari	CS 5
St. Félicien	*	Zoo Sauvage	DB 2
Toronto	*	Metro Toronto Zoo	CS 9, DB 2, RU 5

<i>Country/place</i>	<i>Name of collection</i>	<i>Species exhibited</i>
<b>China</b>		
Beijing	Zoological Gardens	CS 2, DB 5, RU 4
Canton	Zoological Gardens Kwangchow	CS 2
Chengdu, Sichuan	Zoological Gardens	DB 2
Choushun	Zoological Gardens	CS 2
Early specimens		X 19
Guangzhou	see Canton	
Harbin	Zoological Gardens	CS 2
Kwangchow	see Canton	
Peking	see Beijing	
Seito	see Chengdu	
Shanghai	Zoological Gardens	CS 3
Shenyang	Zoological Gardens	CS 3
Taiyuan	Zoological Gardens	CS 3
Tensin	Zoological Gardens	CS 3
<b>Colombia</b>		
Medellin	Hacienda Napoles	CS 2
<b>Croatia</b>		
Osijek	Zoological Gardens	DB 1
Zagreb	* Zoological Gardens	CS 2, DB 4
<b>Cuba</b>		
Havana	Zoological Gardens	CS 7, DB 2
<b>Czech Republic</b>		
Dvur Kralove	Zoological Gardens	CS 18, CSC 13, DB 33, RU 5
Lesna	* Zoological Gardens and Castle	CS 2, DB 2
Liberec	* Severoceska Zoologicka Zahrada	CS 4, RU 1
Ostrava	Zoologicka Zahrada	CS 2
Prague	Zoologicka Zahrada	CS 3, DB 3
Usti nad Labem	Zoologicka Zahrada	CS 7
<b>Denmark</b>		
Aalborg	* Aalborg Zoo	CS 5
Bandholm	Knuthenborg Safari Park	CS 6
Copenhagen	* Zoologiske Have	CS 9, DB 2, DS 1
Givskud	Lovepark Safariland	CS 5
<b>Dominican Republic</b>		
Santo Domingo	Parque Zoologico y Botanico	DB 2
Santo Domingo	Parque Zoologico Nacional, Zoodom	CS 11
<b>Egypt</b>		
Alexandria	Zoological Gardens	CS 1
Alexandria	Specimens in Roman Empire	X 2
Cairo	Giza Zoological Gardens	CS 5, DB 8, RU 2
Cairo	Early specimens	X 2
<b>Estonia</b>		
Tallinn	Tallinn Zoo	DB 2
<b>Europe</b>		
Early specimens		DB 2
Travelling menageries		CS 11, RU 4

<i>Country/place</i>		<i>Name of collection</i>	<i>Species exhibited</i>
Travelling menagerie		Planet Menagerie	RU 1
Travelling menagerie		Bach Menagerie	DB 1
Wingst		Baby Zoo	CS 1
Wuppertal	*	Zoologischer Garten	DB 2
<b>Greece</b>			
Athens		Circo de Madrid	CS 1
<b>Hungary</b>			
Budapest	*	Zoological Gardens	CS 2, DB 2, DS 1
Veszprem	*	Kittenberger Zoo	CS 1, DB 1
<b>India</b>			
Bangalore		Lal Bagh Park	RU 1
Baroda		see Vadodara	
Barpali		Coll. Rajah of Barpali	RU 1
Bhubaneswar		Nandankanan Biological Park	RU 2
Bombay		Zoological Gardens	RU 3
Calcutta		Alipore Zoological Gardens	RU 15, RS 2, DS 5
Calcutta		Barrackpore Park	RU 5
Calcutta		Coll. Nabab of Chittpour	RU 1
Calcutta		Coll. Raja Rajendra Mallick	RU 2
Calcutta		Coll. Maharajah of Burdwan	RU 1
Calcutta		Harbor (transit)	DS 2
Calcutta		Hugli Trading Post	RU 1
Calcutta		Jamrach (dealer)	RS 1
Calcutta		Rutledge (dealer)	RS 1
Calcutta		Coll. Wajid Ali Shah, King of Oudh	RS 1
Chandigarh		M.C. Choudhery Zoological Park	RU 3
Delhi		Zoological Gardens	DB 5, RU 7
Early specimens			RU 9, RS 2
Gauhati	*	Assam State Zoo	CS 1, RU 72
Guwahati		see Gauhati	
Gwalior		Coll. Maharajah of Gwalior	RU 1
Hyderabad	*	Nehru Zoological Park	RU 6
Jaipur		Zoological Gardens	RU 1
Kanpur		Allen Forest Zoo	RU 7
Kassimbazar		Private collection	RU 1
Lucknow		Coll. King of Oudh	RU ?
Lucknow		Zoological Gardens	RU 4
Madras		Zoological Gardens	RU 2, DS 1
Mysore		Sri Chamarajendra Zoo	CS 3, DB 11, RU 7
New Delhi		see Delhi	
Patna		Sanjay Gandhi Biological Park	RU 6
Poona		see Pune	
Pune		Royal Menagerie	RU 1
Trivandrum		Zoological Gardens	RU 4
Udaipur		Zoological Gardens	RU 1
Unknown Zoo			RS 1
Vadodara		Coll. Maharajah of Baroda	RU 2
Vadodara		Zoological Gardens	DB 2, RU 1
<b>Indonesia</b>			
Bogor		Presidential Palace	DS 1
Bogor		Taman Safari Indonesia	CS 7, DS 3
Jakarta		Ragunan Zoological Gardens	CS 3, DS 2
Java		Early collections	RS 9
Sepilok		Capture operation	DS 8
Sumatra		Atjeh, Sultan Iskander	DS 1

<i>Country/place</i>	<i>Name of collection</i>	<i>Species exhibited</i>
Sumatra	Coll. Max Peser	DS 1
Sumatra	Coll. Coenraad-Uhlig	DS 1
Sumatra	Danish Sumatran Rhino Expedition	DS 3
Sumatra	Coll. Harry Gillmore	DS 3
Sumatra	Sumatra Rhino Capture Operation	DS 18
Surabaya	Kebun Binatang Surabaya	CS 2, DS 2
<b>Iran</b>		
Esfahan	Early specimens	X 3
Teheran	Zoological Gardens	DB 7
<b>Ireland</b>		
Dublin	* Dublin Zoo	CS 5, DB 7, RU 2
<b>Israel</b>		
Jerusalem	Biblical Zoological Garden	DB 2
Ramat-Gan	* Zoological Centre, Tel Aviv	CS 27, DB 2
Tel Aviv	see Ramat-Gan	
<b>Italy</b>		
Belpasso	Parco Zoo di Sicilia	CS 1
Bussolengo	Circo Medrano	CS 4
Fasano	Zoosafari di Fasano	CS 3, DB 1
Langato	Autosafari - Parco Zoo del Garda	CS 5
Milan	Dealer collection	RU 1
Naples	Giardino Zoologico	DB 10
Pistoia	Giardino Zoologico 'Citta di Pistoia'	CS 2
Rome	Giardino Zoologico	CS 2, DB 6, RU 1
Rome	Grunvald Zoo	CS 1
Rome	Safari Park	CS ?
Rome	Specimens of Roman Empire	X 12
Torino	Giardino Zoologico	CS 2, DB 2
Verona	Langato Safari	DB 2
<b>Japan</b>		
Fujiwara, Shizuoka Pref.	Fuji Safari Park	CS 14
Fukuoka, Kyushu Island	Fukuoka Zoo	CS 2, DB 3
Gunma Pref.	Gunma Safari World	CS 13
Himeji City	Himeji Central park	CS 9
Hiroshima	Asa Zoo	DB 14
Hitachi	Kamine Zoo	DB 9
Hokkaido Pref.	Haiji Farm	CS 1
Iwaki City	Iwaki World Safari	CS 1
Izu, Shizuoka Pref.	Waling Safari Izu Bio Park	CS 5
Kagoshima	* Hirakawa Zoological Park	CS 2, DB 3
Kamine	see Hitachi	
Kanazawa	see Yokohama	
Kobe	Oji Zoo	CS 2, DB 8
Kumamoto	Kumamoto Zoo	CS 3, DB 4
Kyushu, Anjin-in-Cho	Kyushu African Lion Safari	CS 21
Miyazaki	Miyazaki Safari Park	CS 17
Morioka City	Zoological Gardens	CS 3
Nagasaki	Nagasaki Bio Park	CS 2
Nagasaki	Nagasaki Safari Park	CS 4
Nasu	Nasu Safari Park	CS 3
Nagoya	Higashiyama Zoo	DB 12, RU 4
Okinawa	Okinawa Kodomonoki Park	CS 1
Onuma, Hokkaido Pref.	Subaru Park	CS 3
Osaka	Tennoji Zoo	DB 10, DS 1

<i>Country/place</i>	<i>Name of collection</i>	<i>Species exhibited</i>
<b>Sapporo</b>	Maruyama Zoo	DB 1
<b>Sendai City</b>	Yagiya Zoological Park	CS 3
<b>Shizuoka</b>	Municipal Nihondaira Zoo	CS 2
<b>Susono City</b>	see Fujiwara	
<b>Tobu, Saitama Pref.</b>	Tobu Zoo	CS 2
<b>Tohoku</b>	Safari Park	CS 3
<b>Tokyo</b>	Tama Zoological Park	RU 4
<b>Tokyo</b>	* Ueno Zoo	CS 2, DB 4
<b>Toyohashi</b>	* Toyohashi Zoo and Botanical Park	CS 3
<b>Travelling Shows</b>	Circus	DB 3
<b>Wakayama Pref.</b>	* Adventure World	CS 20, DB 1
<b>Yamaguchi Pref.</b>	Akiyoshidai Safari Park	CS 6
<b>Yokohama</b>	Kanazawa Zoo	CS 2, DB 3, RU 2
<b>Yoshikawa</b>	Unidentified	DB 1
<b>Kazakhstan</b>		
<b>Alma Ata</b>	Zoopark	DB 3
<b>Kenya</b>		
<b>Lake Nakuru National Park</b>		CS ?
<b>Lewa Downs Ranch</b>	*	CS 5, DB 9
<b>Maasai Mara Game Reserve</b>		CS 10
<b>Meru National Park</b>		CS ?
<b>Nairobi</b>	* Animal Orphanage	DB 2
<b>Nairobi</b>	* David Sheldrick Wildlife Trust	DB 8
<b>Nanyuki</b>	Ol Pejeta Game Reserve	DB 2
<b>Ngare Seroi Sanctuary</b>	*	CS 10, DB 26
<b>Nyeri</b>	* Solio Ranch	CS ?, DB ?
<b>Rumuruti</b>	Farm of Carr Hartley	CSC 2
<b>Rumuruti</b>	Coll. Stanton	DB 1
<b>Voi</b>	Coll. Kearney	DB 1
<b>Libya</b>		
<b>Tripoli</b>	* Tripoli Zoo	CS 2
<b>Lithuania</b>		
<b>Kaunas</b>	* Kaunas Zoo	CS 2
<b>Malaysia</b>		
<b>Dindings</b>	Capture Site	RS 1
<b>Jejebu</b>	Coll. Datok Rajah Kiah	DS 1
<b>Kuala Lumpur</b>	Zoo Negara	CS 1, DB 2
<b>Melaka</b>	Zoological Gardens	CS 2, DS 14
<b>Tabin Wildlife Reserve</b>		DS 1
<b>Mexico</b>		
<b>Cuernavaca-Taxco</b>	Zoofari	CS 1
<b>Guadalajara</b>	* Zoologico Guadalajara	CS 4
<b>Guadalupe</b>	Zoologico 'La Pastora'	CS 2
<b>Leon</b>	Parque Zoologico	CS 2
<b>Mexico City</b>	Alfonso L. Herrera Zoological Park	CS 2, DB 5
<b>Morelia</b>	Zoologico de Morelia, Parque Juarez	CS 7
<b>Puebla</b>	African Safari	CS 8
<b>Toluca</b>	Zacango Zoo	CS 3
<b>Travelling circus</b>	Bell's Brothers Circus	DB 1
<b>Morocco</b>		
<b>Temara</b>	Parque Zoologique National	CS 2

<i>Country/place</i>	<i>Name of collection</i>	<i>Species exhibited</i>
<b>Mozambique</b>		
Lourenco Marques	see Maputo	
Maputo	Unidentified	CS ?
<b>Myanmar</b>		
Rangoon	see Yangon	
Theyboon	Monastery	DS 1
Yangon	Zoological Gardens	CS 2, RU 4, DS 1
<b>Namibia</b>		
Okahandja	Zoopark	DB 2
<b>Nepal</b>		
Kathmandu	Coll. King of Nepal	RU 6
Kathmandu	Zoological Gardens	RU 4
<b>Netherlands</b>		
Amsterdam	* Artis Zoo	DB 10, RU 4, DS 2
Arnhem	* Burgers Zoo	CS 20, DB 7
Emmen	* Noorder Dierenpark	CS 3
Hilvarenbeek	Safaripark Beekse Bergen	CS 21
Rotterdam	* Zoo Blijdorp	CS 3, DB 4, RU 3
<b>New Zealand</b>		
Auckland	* Auckland City Zoological Park	CS 2
Christchurch	Orana Park Wildlife Reserve	CS 9
Wellington	Zoological Gardens	CS 3
<b>Nigeria</b>		
Jos	Jos Museum Zoo	DB 2
Maiduguri	Kyarimi Park Zoo	DB 3
<b>North Korea</b>		
Pyongyang	Zoological Park	CS 4, DB 4
<b>Pakistan</b>		
Indus Civilization	Early specimens	RU ?
Lahore	Zoological Gardens	CS 2
<b>Philippines</b>		
Manila	Zoological and Botanical Gardens	DB 2
<b>Poland</b>		
Breslau	see Wroclaw	
Gdansk	* Zoological Gardens	CS 1
Katowice	Slaski Ogród Zoologiczny	CS 7
Lodz	* Miejski Ogród Zoologiczny	CS 1, DB 1
Wroclaw	Kallenberg's Menagerie	RU 1
Wroclaw	* Miejski Ogród Zoologiczny	CS 3, DB 6, RU 1, DS 1
<b>Portugal</b>		
Lisbon	Coll. King Manuel I	RU 1
Lisbon	Coll. King Philip II	RU 1
Lisbon	* Jardim Zoologico	CS 4, DB 8
<b>Puerto Rico</b>		
Mayaguez	see Puerto Rico	
Puerto Rico	Jardin Zoologico, Zoorico	CS 2



<i>Country/place</i>		<i>Name of collection</i>	<i>Species exhibited</i>
<b>Qatar</b>			
Doha		Municipal Zoological Gardens	CS 2
<b>Romania</b>			
Calarasi		Municipal Zoo	CS 2
<b>Russia</b>			
Kaliningrad	*	Kaliningradskii Zoopark	CS 2
Leningrad		see St. Petersburg	
Moscow	*	Moskovskii Zoologicheskii Park	CS 1, DB 1, RU 1
Rostov		Rostovskii Na-Donu Zoologicheskii Park	CS 2
St. Petersburg		Zoological Gardens	DB 3, RU 2
<b>Saudi Arabia</b>			
Mecca		Early specimens	X 1
Riyadh		Zoological Gardens	CS 2, CSC 2
<b>Singapore</b>			
Singapore		Botanic Gardens	DS 3
Singapore	*	Zoological Gardens	CS 5, RU 8
<b>Slovakia</b>			
Bratislava	*	Zoologicka Zahrada	CS 3
<b>Somalia</b>			
Expedition		Count Potocki	DB 1
<b>South Africa</b>			
Addo National Park		Released specimens	DB ?
Bloemfontein	*	Kings Park	CS 4
Broederst Brook		see Sandton	
Durban		Natal Zoological Gardens	CS 2
Durbanville	*	Tygerberg Zoological Preservation Trust	CS 2
Johannesburg	*	Zoological Gardens	CS 5, DB 4
Lapalala		Home of Fam. C. Walker	DB 1
Lichtenburg	*	Breeding Centre of Pretoria Zoo	CS 31
Potgietersrus	*	Breeding Centre of Pretoria Zoo	CS 6, DB 4
Pretoria	*	National Zoological Gardens	CS 24, DB 10
Private Ranches			CS ?
Sandton		Dealer	CS 2, DB 2
<b>South Korea</b>			
Pusan		Unidentified	DB 1
Seoul		Grand Park Zoo	DB 2, RU 1
<b>Spain</b>			
Barcelona	*	Parc Zoologic	CS 4, DB 4
Fuengirola		Parque Zoologico	CS 4
Madrid		Coll. King Philip II	RU 1
Madrid		Safari Park El Quexigal	CS ?
Madrid	*	Zoo de la Casa de Campo	CS 4, DB 1
Mallorca		Auto Safari Reserva Africana	CS 2
San Roque		Auto Safari Andaluz	CS 4
Valencia	*	Jardin Zoologico	CS 1
Various		Coll. Salvadore Dali	DB 1
Villaescusa	*	Parque de la Naturaleza de Cabarceno	CS 4

<i>Country/place</i>		<i>Name of collection</i>	<i>Species exhibited</i>
<b>Sri Lanka</b>			
Colombo		National Zoological Gardens, Dehiwala	DB 6
<b>Sudan</b>			
Khartoum		Zoological Gardens	CSC 5
<b>Sweden</b>			
Boras	*	Boras Djurpark	CS 2
Boras		Coll. Sigvard Berggren	DB 1
Kolmarden		Kolmardens Djurpark	CS 3
<b>Switzerland</b>			
Basel	*	Zoologischer Garten	DB 2, RU 31, DS 1
Rapperswil	*	Circus Knie	CS 2, DB 1
Zurich		Zoologischer Garten	CS 2, DB 15
<b>Syria</b>			
Aleppo		Early specimens	X 1
<b>Taiwan</b>			
Kaohsiung City		Zoological Gardens	CS 3
Taipei	*	Taipei Zoo	CS 9, DB 3
Taipei		Leofoo Village Safari Park	CS 20
<b>Tanzania</b>			
Mwanza		Saanane Island Game Reserve Zoo	DB 3
<b>Thailand</b>			
Bangkok		Bangkok Safari	CS 4
Bangkok		Dusit Zoo	CS 2, DB 1, DS 1
Bangkok		Private collections	RS 4
Chiangmai	*	Zoological Gardens	RU 3
<b>Tunisia</b>			
Tunis		Parc Zoologique	CS 5
<b>Turkey</b>			
Istanbul		Early specimens	X 1
<b>Ukraine</b>			
Kiev	*	Kievski Zoologicheskii Park	CS 3, DB 1
<b>United Kingdom</b>			
Bekesbourne		Howletts Zoo Park	DB 4
Bewdley	*	West Midland Safari Park	CS 4
Blackpool	*	Municipal Zoological Gardens	CS 4
Bristol		Bristol, Clifton & West of England Zoological Society	DB 9
Burford	*	Cotswold Wildlife Park	CS 3
Chester	*	North of England Zoological Society	CS 2, DB 15, RU 1
Cleethorpes		Marineland and Zoo	DB 1
Colchester	*	Colchester Zoo	CS 2
Edinburgh	*	Royal Zoological Society of Scotland	CS 11, DB 3
Edinburgh		Travelling collection (Atkins)	RU 1
Glasgow		Zoological Society of Glasgow	CS 3
Howletts Zoo Park		see Bekesbourne	
Kirby Misperton	*	Flamingo Land	CS 1
Knowsley Park		see Prescott	
Liverpool		William Cross (dealer)	DS 1

<i>Country/place</i>	<i>Name of collection</i>	<i>Species exhibited</i>
Liverpool	Zoological Gardens	RU 1
London	Early Specimens	RU 4
London	Exeter 'Change	RU 3
London	Jamrach (dealer)	RU 4, RS 1
London	Olympia	RU 1
London	Rice (dealer)	RU 1, DS 2
London	Surrey Zoological Gardens	RU 1
London	Zoological Society of London	CS 1, CSC 2, DB 21, RU 12, RS 1, DS 9
Longleat	see Warminster	
Manchester	Belle Vue Zoological Gardens	DB 7, RU 4
Manchester	Zoological Garden	RU 1
Marwell	see Winchester	
Paignton	Zoological and Botanical Gardens	CS 3, DB 2
Port Lympne	Zoo Park	DB 19, DS 3
Prescot	* Knowsley Safari Park	CS 9, CSC 1
Southampton	Zoological Gardens	CSC 1, DB 2
Travelling menageries	Wombwell's Menagerie	RU 7
Travelling menageries	Manders' Royal Menagerie	RU 1
Warminster	Longleat Park	CS 16
Whipsnade	Whipsnade Park	CS 70, DB 15, RU 14
Winchester	* Marwell Zoological Park	CS 5, DB 2
Windsor	Royal Windsor Safari Park	CS 8
Woburn	* Woburn Wild Animal Kingdom	CS 10
<b>USA</b>		
Albuquerque, New Mexico	Rio Grande Zoological Park	CS 2
Almo, Idaho	Jungle Wonder Circus	CS 1
Alvin, Texas	Bayou Wildlife Park	CS 4
Amityville, New York	Frank Buck's Jungle Camp	RU 1
Asheboro, N. Carolina	North Carolina Zoological Park	CS 5, DB 3
Atlanta, Georgia	* Atlanta Zoo	DB 5
Baker, Louisiana	* Greater Baton Rouge Zoo	CS 5
Baltimore, Maryland	Zoological Gardens	CS 2
Birmingham, Alabama	Birmingham Zoo	CS 3
Boston, Massachusetts	Franklin Park Zoo	DB 3
Brownsville, Texas	* Gladys Porter Zoo	CS 8, RU 2
Buffalo, New York	Buffalo Zoological Gardens	DB 6, RU 1
Catskill, New York	* Catskill Game Farm	CS 2
Center Hill, Florida	Rare Feline Breeding Compound	CS 3
Chicago, Illinois	Chicago Zoological Park, Brookfield	CS 2, DB 19, RU 3
Chicago, Illinois	Lincoln Park Zoological Gardens	DB 3
Cincinnati, Ohio	* Cincinnati Zoo	DB 22, RU 4, DS 4
Cleveland, Ohio	Cleveland Metroparks Zoological Park	CS 3, DB 4
Clifton, Texas	Texas Safari Inc.	CS 6
Colorado Springs, Colorado	Cheyenne Mountain Zoological Park	DB 10
Columbia, South Carolina	* Riverbanks Zoological Park	CS 3, DB 2
Columbus, Ohio	* Columbus Zoo	CS 6, DB 10
Cumberland, Ohio	The Wilds	CS 7
Dallas, Texas	* Marsalis Park Zoo	DB 8
Davis, Oklahoma	Arbuckle Wilderness	CS 1
Deland, Florida	Nautilus Corp., Idle Hour Farm	CS 2
Denver, Colorado	Denver Zoological Gardens	DB 17
Detroit, Michigan	* Detroit Zoological Park	DB 15
Doswell, Virginia	Kings Dominion	CS 15
Duluth, Minnesota	* Lake Superior Zoo	DB 1
El Paso, Texas	* El Paso Zoo	CS 3
Encino, Texas	Bass Ranch	DB 6

<i>Country/place</i>		<i>Name of collection</i>	<i>Species exhibited</i>
Evansville, Indiana	*	Mesker Park Zoo	DB 1
Fort Worth, Texas	*	Zoological Park	CS 8, DB 6, RU 2
Fresno, California	*	Chaffee Zoological Gardens	CS 2, DB 5
Garden City, Kansas	*	Lee Richardson Zoo	DB 3
Gentry, Arkansas		Wild Wilderness	CS 1
Glen Rose, Texas		Fossil Rim Wildlife Centre	CS 10, DB 7
Grand Prairie, Texas		Lion Country Safari	CS ?
Haines City, Florida		Circus World	CS 1, DB 1
Harwood, Texas		Noah's Land Wildlife Park	CS 2
Holland, Michigan		Coll. George F. Getz	DB 1
Hollywood, California		Studio Metro-Goldwyn-Mayer	DB 1
Honolulu, Hawaii	*	Honolulu Zoo	CS 4
Houston, Texas		Bush Gardens	CS 3, RU 2
Hudson, New Hampshire		Benson's Wild Animal Farm	CS 4
Idaho Falls, Idaho		Tautphaus Park Zoo	CS 2
Inman, South Carolina		Hollywild Animal Park	CS ?
International Animal Exchange (IAE)			CS 74
Jackson, Mississippi		Jackson Zoological Park	CS 5
Jackson, New Jersey		Six Flags Great Adventure	CS 32
Jacksonville, Florida	*	Jacksonville Zoological Park	CS 20, DB 4
Johnson City, Texas		McCombs Ranch	CS 1
Kansas City, Missouri		Kansas City Zoo	CS 5, DB 11
Kings Island, Ohio		Wild Animal Safari	CS 31
Kingwood, Texas		Kingwood Safari	CS 1
Knoxville, Tennessee	*	Zoological Gardens	CS 29
Laguna Hills, California		Lion Country Safari	CS 28
Lansing, Michigan		Potter Park Zoo	DB 3
Linn, Texas		Calvin Bentsen's La Coma Ranch	DB 12
Litchfield Park, Arizona	*	Wildlife World Zoo	CS 1
Little Rock, Arkansas	*	Zoological Gardens	CS 2
Llano, Texas		Sandstone Mountain Ranch	CS 3
Los Angeles, California	*	Los Angeles Zoo	CS 2, DB 14, RU 10, DS 3
Louisville, Kentucky	*	Zoological Gardens	CS 8
Madison, Wisconsin	*	Henry Vilas Park Zoo	CS 2
Memphis, Tennessee	*	Overton Park Zoo	CS 11, DB 7
Miami, Florida		Crandon Park Zoo	DB 3
Miami, Florida		Miami Metro Zoo	CS 4, DB 14, RU 3
Milwaukee, Wisconsin		Milwaukee County Zoological Park	CS 3, DB 6, RU 4
Mitchellville, Iowa		Wild World	CS 4
Monroe, Louisiana	*	Louisiana Purchase Gardens and Zoo	CS 2
Mountain Home, Texas		Waters Ranch	CS 2
Nashua, New Hampshire		John Benson's Animal Farm	DB 1
New Orleans, Louisiana	*	Audubon Park Zoological Garden	CS 6
New York, NY	*	Bronx Zoo	CS 2, DB 6, RU 13, DS 2
New York, NY		Central Park Zoo	DB 3, RU 4
New York, NY		Prospect Park, Brooklyn	DB 2
Norfolk, Virginia	*	Virginia Zoological Park	CS 2
Ocala, Florida		Unidentified	CS 1
Oklahoma City, Oklahoma		Oklahoma City Zoo	CS 2, DB 16, RU 5
Omaha, Nebraska	*	Henry Doorly Zoo	CS 3, RU 2
Pawtucket, Rhode Island		Slater-Memorial Park Zoo	DB 1
Philadelphia, Pennsylvania	*	Zoological Gardens	CS 3, DB 3, RU 13, DS 2
Phoenix, Arizona	*	Phoenix Zoo	CS 10
Pittsburgh, Pennsylvania		Zoological Gardens	CS 2, DB 8
Plain Dealing, Louisiana		Wild World	CS 2
Portland, Oregon		Portland Zoological Gardens	RU 1
Portland, Washington		Washington Park Zoo	DB 2
Redwood City, California	*	Marine World Africa USA	CS 2

<i>Country/place</i>		<i>Name of collection</i>	<i>Species exhibited</i>
Royal Oak		see Detroit, Michigan	
Salina, Kansas		Rolling Hills Wildlife Preserve	CS 1
Salt Lake City, Utah	*	Hogle Zoo	CS 3
San Antonio, Texas	*	Zoological Gardens	CS 15, DB 11
San Diego, California	*	San Diego Zoo	CS 12, CSC 1, DB 13, RU 8, DS 4
San Diego, California	*	San Diego Wild Animal Park	CS 109, CSC 8, DB 15, RU 28
San Francisco, California		Zoological Gardens	CS 2, DB 15, RU 2
San Jose, California	*	San Jose Baby Zoo	CS 1
Santillana		Unidentified	DB 2
Sequim, Washington		Olympic Game Farm	CS ?
Sioux Falls, South Dakota		Great Plains Zoo	CS 1
St Louis, Missouri	*	Saint Louis Zoo	CS 4, CSC 2, DB 16, RU 1
Stockbridge, Georgia		Lion Country Safari	CS 12
Tampa, Florida		Lowry Park Zoo	RU 1
Tampa Bay, Florida	*	Busch Gardens	CS 2, DB 12
Thousand Oaks, California		Louis Goebel's Jungle Land	DB 2
Toledo, Ohio	*	Zoological Gardens	CS 4, DB 2
Travelling menageries and circuses			CS 3, DB 18, RU 23, DS 6
Tucson, Arizona		Gene Reid Zoological Park	CS 2
Tulsa, Oklahoma	*	Tulsa Zoo	CS 5, DB 1
Tyler, Texas		Caldwell Zoo	DB 5
Vallejo, California		Marine World Africa	CS 3
Waco, Texas	*	Cameron Park Zoo	CS 2
Washington, DC	*	National Zoological Gardens	CS 2, CSC 2, DB 12, RU 10, DS 1
Wellford, South Carolina		Holly Wild Animal Park	CS 1
West Palm Beach, Florida		Lion Country Safari	CS 36
Wichita, Kansas	*	Sedgwick County Zoo	DB 9
Winston, Oregon	*	Wildlife Safari	CS 10
Yulee, Texas		White Oak Wildlife Center	CS 10, DB 4
<b>Uruguay</b>			
Montevideo		Jardim Zoologico	CS 1
<b>Uzbekistan</b>			
Bukhoro		Court	X 1
<b>Venezuela</b>			
Barquisimeto		Parque Zoologico Bararida	CS 5
Carabobo		Parque Safari	CS 7
Caracas		Parque Zoologico Caracuaao	CS 2
<b>Zimbabwe</b>			
Expedition		Coryndon	CS 1
Expedition		Selous	CS 1
Marondera		Imire Game Ranch	DB 7
Salisbury		J. Condy	DB 1