

MAMMALS

ORDER MARSUPIALIA

New South Wales Koala (*Phascolarctus phascolarctus cinereus*)

San Diego USA.

Wallaby (*Unspecified*)

Cleveland USA; Osnabruck Ge; Wellington NZ.

Yellow-footed Rock Wallaby (*Petrogale xanthopus*)

Adelaide Austral.

Short-eared Rock Wallaby (*Petrogale brachyotis*)

Detroit USA.

Black-flanked Rock Wallaby (*Petrogale lateralis*)

Adelaide Austral.

Short-tailed Wallaby or Quokka (*Setonix brachyusus*)

Adelaide Austral; Chester GB; Delhi India; Edinburgh GB; Hanover Ge; Perth Austral.

Dama Wallaby (*Thylogale eugenii*)

Paris P.Z. Fr.

Agile Wallaby (*Protemnodon agilis*)

Amsterdam N; Buffalo USA; New York Bronx USA; San Diego USA.

Black-tailed Wallaby (*Protemnodon bicolor*)

Dallas USA; Perth Austral; Port of Spain Trin.

Red-necked Wallaby (*Protemnodon rufogrisea*)
(Includes Bennett's Wallaby and Bennett's Kangaroo)

Adelaide Austral; Amsterdam N; Antwerp Bel; Augsburg Ge; Berlin E. Ge; Berlin W. Ge; Bristol GB; Brno Cz; Catskill USA; Chester GB; Cleres Fr; Cologne Ge; Chessington GB; Dublin Eire; Duisburg Ge; Gelsenkirchen Ge; Hamburg Ge; Jerusalem Is; Katowice Pol; Lesna Cz; Liberec Cz; Manchester GB; Paignton GB; Paris P.Z. Fr; Pretoria SA; Rotterdam N; Straubing Ge; Stuttgart Ge; Tel Aviv Is; Vienna Austria; Warsaw Pol; Whipsnade GB.

Wallaroo (*Macropus robustus*)

Albuquerque USA; Budapest H; Dallas USA; Oklahoma L.P.Z. USA; Philadelphia USA; San Diego USA; Wellington NZ.

Euro (*Macropus robustus* spp)

Adelaide Austral; Calcutta Ind; Delhi Ind.

Red Kangaroo (*Macropus rufus*)

Adelaide Austral; Amsterdam N; Antwerp Bel; Baltimore USA; Berlin E. Ge; Berlin W. Ge; Birmingham USA; Bristol GB; Buffalo USA; Catskill USA; Colorado USA; Detroit USA; Dresden Ge; Hamburg Ge; Leipzig Ge; Nagoya J; Naples It; Nuremberg Ge; Philadelphia USA; Rome It; St. Paul USA; Straubing Ge; Stuttgart Ge; Tama J; Vienna Austria.

Great Grey Kangaroo (*Macropus major canguru*)

Adelaide Austral; Alexandria UAR; Bristol GB; Budapest H; Calcutta Ind; Delhi Ind; Dublin Eire; Hanover Ge; Kobe J; Paris P.Z. Fr; Philadelphia USA; Stuttgart Ge; Zürich Switz.

Black-faced Grey Kangaroo (*Macropus major tasmaniensis*)

Adelaide Austral.

Kangaroo Island Kangaroo (*Macropus major fuliginosus*)

Adelaide Austral; Catskill USA.

Kangaroo (*Unspecified*)

Bombay Ind; Eskilstuna Sw; Gdansk Pol; Hanover Ge; Los Angeles USA; Mysore Ind; Sydney Austral; Wellington NZ.

Bennett's Tree Kangaroo (*Dendrolagus bennetti*)

Cairo UAR.

Rat Kangaroo (*Potorous* sp)

Washington N.Z.P. USA.

North American Opossum (*Didelphis marsupialis*)

Pittsburgh USA.

ORDER INSECTIVORA

European Hedgehog (*Erinaceus europaeus*)

London GB.

Elephant Shrew (*Elephantulus intufi alexandri*)

Frankfurt Ge.

(*Megalala rufa*)

Frankfurt Ge.

ORDER CHIROPTERA

Indian Fruit Bat (*Pteropus giganteus*)

Berlin W. Ge.

Egyptian Fruit Bat (*Rousettus aegyptiacus*)
Cairo UAR; Cologne Ge.

Malaysian Fruit Bat (*Cynopterus brachyotis*)
London G.B.

ORDER EDENTATA

Hairy Armadillo (*Euphractus villosus*)
Berlin W. Ge.

Armadillo (*Unspecified*)
Dresden Ge.

Great Anteater (*Myrmecophaga jubata*)
Georgetown B.G.

Two-toed Sloth (*Choloepus didactylus*)
San Diego USA; Washington N.Z.P. USA.

ORDER PRIMATES

Bornean Tupaia (*Tupaia tana*)
Cologne Ge.

Malay Tupaia (*Tupaia glis*)
Stuttgart Ge.

Potto (*Perodicticus potto*)
Washington N.Z.P. USA.

Great Galago (*Galago crassicaudatus*)
Chicago L.P.Z. USA; Washington N.Z.P. USA.

Allen's Galago (*Galago alleni*)
Chicago L.P.Z. USA.

Bushbaby (*Galago senegalensis*)
Chester G.B.; London G.B.; Paignton G.B.

Galago (*Galago sp*)
Tel Aviv Is.

Douroucouli (*Aotus trivirgatus*)
Rio de Janeiro Braz.

Ring-tailed Lemur (*Lemur catta*)
Bristol G.B.; London G.B.; Pretoria SA; Saarbrucken Ge.

Brown Lemur (*Lemur macaco fulvus*)
Chicago L.P.Z. USA; Pretoria SA.

Black Lemur (*Lemur macaco*)
Saarbrucken Ge.

Hybrid Lemur (*Lemur macaco macaco* × *Lemur m. fulvus*)

Saarbrucken Ge.

Pigmy Marmoset (*Cebuella pygmaea*)
Copenhagen D; Cologne Ge.

Common Marmoset (*Hapale jacchus*)
Berlin E. Ge; Buenos Aires Arg; Copenhagen D; Dortmund Ge; Frankfurt Ge; London G.B.; Rotterdam N; Stockholm Sw.

Black-tailed Marmoset (*Hapale argentata*)
Tel Aviv Is.

Cotton-headed Tamarin (*Lentocebus oedipus*)
Liberec Cz.

Golden Marmoset (*Leontocebus rosalia*)
Goulds USA; Philadelphia USA; San Diego USA.

Capuchin (*Cebus apella*)
Buenos Aires Arg; Liberec Cz; Lincoln Neb. USA; Hanover Ge; Paignton G.B.; Saarbrucken Ge.

Hooded Capuchin (*Cebus apella paraguayensis*)
San Diego USA.

White-throated Capuchin (*Cebus capucinus*)
Baltimore USA; Bojnice Cz; Lesna Cz; Prague Cz; Sofia Bul; Tel Aviv Is; Warsaw Pol.

Capuchin (*Cebus spp*)
Albuquerque USA; Amsterdam N; Caracas V; Georgetown B.G.; Lincoln Neb. USA; Seattle USA; Washington N.Z.P. USA; Zürich Switz.

Squirrel Monkey (*Saimiri sciurea*)
Goulds USA; Portland USA.

Black-faced Spider Monkey (*Ateles ater*)
Dallas USA.

Spider Monkey (*Ateles belzebuth*)
Birmingham USA.

Geoffroy's Spider Monkey (*Ateles geoffroyi*)
Colorado USA; San Diego USA.

Spider Monkey (*Ateles spp*)
Chicago L.P.Z. USA; Milwaukee USA.

Vervet Monkey (*Cercopithecus aethiops*)
(Includes Green Monkey & Grivet Monkey)
Bloemfontein SA; Buenos Aires Arg; Cairo UAR; Chessington G.B.; Chicago L.P.Z. USA; Columbus USA; Colorado USA; Dallas USA; Dehiwala Ceylon; East London SA; Ilfracombe G.B.; Jerusalem Is; Lesna Cz; Liberec Cz; Lodz Cz; Lyon Fr; Pretoria SA; Rio de Janeiro Braz; Rostock Ge; St. Paul USA; Seattle USA; Warsaw Pol.

Moustached Monkey (*Cercopithecus cephus*)
Jerez Sp.

Owl-faced Monkey (*Cercopithecus hamlyni*)
Amsterdam N; Berlin W. Ge; Rotterdam N.

Pluto Monkey (*Cercopithecus mitis*)
(Includes White-throated Monkey)
Berlin W. Ge; Tel Aviv Is.

Diadam Monkey (*Cercopithecus m. leucampyx*)
Antwerp Bel.

Talapoin Monkey (*Cercopithecus talapoin*)
Barcelona Sp.

Mona Monkey (*Cercopithecus mona*)
Dallas USA; Oklahoma USA; Paris M. Fr;
Wassenaar N.

Diana Monkey (*Cercopithecus diana*)
Birmingham USA; Dehiwala Ceylon; Lincoln Neb
USA.

L'Hoest's Monkey (*Cercopithecus l'hoesti*)
Antwerp Bel; Paris M. Fr; Rotterdam N.

De Brazza's Monkey (*Cercopithecus neglectus*)
Baltimore USA; London G B; Washington N.Z.P.
USA.

Allen's Baboon-like Monkey (*Allenopithecus
nigroviridis*)
San Diego USA.

Patas Monkey (*Erythrocebus patas*)
Paris M. Fr; Tel Aviv Is.

Patas Monkey × Moustached Monkey
(*Erythrocebus patas* × *Cercopithecus cephus*)
St Paul USA.

Common Mangabey (*Cercocebus torquatus*)
Hanover Ge; Pittsburgh USA.

Sooty Mangabey (*Cercocebus torquatus atys*)
Washington N.Z.P. USA.

Agile Mangabey (*Cercocebus galeritus agilis*)
Liberec Cz.

Grey-checked Mangabey (*Cercocebus albigena*)
Oklahoma USA.

Mangabey (*Cercocebus* spp)
Basle Switz; Colorado USA; Eskilstuna Sw; Han-
over Ge.

Barbary Ape (*Macaca sylvana*)
Chester GB; Jerez Sp; Manchester GB; Paignton
GB; Washington N.Z.P. USA.

Rhesus Monkey (*Macaca mulatta*)
Adelaide Austral; Albuquerque USA; Amsterdam
N; Berlin W. Ge; Bojnice Cz; Bombay Ind;
Bremerhaven Ge; Bristol GB; Brno Cz; Budapest
H; Calcutta Ind; Calgary Ca; Chessington GB;
Cleveland USA; Dallas USA; Detroit USA;
Dresden Ge; Dudley GB; Eskilstuna Sw; Frankfurt
Ge; Glasgow GB; Göppingen Ge; Jerusalem Is;
Katowice Pol; Kokura J; Kyoto J; Leipzig Ge;
Liberec Cz; Libertyville USA; Milwaukee USA;
Moose Jaw Ca; Nuremberg Ge; Oklahoma USA;
Perth Austral; Rome It; St. Paul USA; Seattle USA;
Stendal Ge; Warsaw Pol; Wellington NZ; Whip-
snade GB.

Crab-eating Monkey or Java Monkey (*Macaca
irus*)

Adelaide Austral; Basle Switz; Berlin E. Ge; Bojnice
Cz; Brno Cz; Buffalo USA; Caracas V; Dehiwala
Ceylon; Goulds USA; Kokura J; Lesna Cz; Man-
chester GB; Sofia Bul; Stockholm Sw; Warsaw
Pol; Wellington NZ.

Pig-tailed Macaque (*Macaca nemestrina*)
Arnhem N; Catskill USA; Colorado USA; Kyoto
J; Madison Ind USA; Perth Austral; Portland USA;
Ueno J; Wassenaar N; Wellington NZ.

Lion-tailed Monkey or Wanderoo (*Macaca
silenus*)
New York Bronx USA; Trivandrum Ind.

Bonnet Macaque (*Macaca radiata*)
Adelaide Austral; Ankara T; Jaipur Ind; Kyoto J;
Wellington NZ.

Stump-tailed Macaque (*Macaca speciosa*)
Chicago L.P.Z. USA; Columbus USA; Liberty-
ville USA; Seattle USA.

Black Monkey or Moor Macaque (*Macaca
maura*)
Nagoya J; Zürich Switz.

Japanese Macaque (*Macaca fuscata*)
Matsuyama J; Nagoya J; Quebec Ca; San Diego
USA; Seoul K; Ueno J.

Hybrid Macaque (*Macaca irus philippensis* ×
Macaca irus irus)
Washington N.Z.P. USA.

Hybrid Macaque (*Macaca irus* × *Macaca mul-
atta*)
Berlin E. Ge.

Macaque Monkey (*Macaca* spp)
Paris P.Z. Fr; Quebec Ca.

Chacma Baboon (*Papio ursinus*)

Adelaide Austral; Alexandria UAR; Bloemfontein SA; Budapest H; Buenos Aires Arg; Fresno USA; Mysore Ind; Rio de Janeiro Braz; Rotterdam N; Wassenaar N.

Dog-faced Baboon or Yellow Baboon (*Papio cynocephalus*)

Hanover Ge; Karlsruhe Ge; Lodz Pol; Tel Aviv Is.

Olive Baboon or Anubis Baboon (*Papio anubis*)

Chester GB; Cleveland USA; Copenhagen D; Dehiwala Ceylon; Gelsenkirchen Ge; Katowice Pol; Stockholm Sw; Warsaw Pol.

Guinea Baboon (*Papio papio*)

Arnhem N; Buenos Aires Arg; Catskill USA; Colorado USA; Copenhagen D; Detroit USA; Libertyville USA; Nuremberg Ge; Paris P.Z. Fr; Portland USA; Stuttgart Ge.

Hamadryas Baboon (*Comopithecus hamadryas*)
(Includes Sacred Baboon)

Alexandria UAR; Amsterdam N; Baltimore USA; Barcelona Sp; Berlin W. Ge; Cairo UAR; Calcutta Ind; Cleveland USA; Cologne Ge; Columbus USA; Copenhagen D; Dehiwala Ceylon; Frankfurt Ge; Fresno USA; Göppingen Ge; Hamburg Ge; Jerez Sp; Jerusalem Is; Kobe J; Kokura J; Leipzig Ge; Liberec Cz; Lodz Pol; Matsuyama J; Mayaguez PR; Nagoya J; Rio de Janeiro Braz; Rome It; Sofia Bul; Stuttgart Ge; Tel Aviv Is; Ueno J; Warsaw Pol.

Hybrid Baboon (*Papio ursinus doquera* × *Papio cynocephalus*)

Vienna Austria.

Mandrill (*Mandrillus sphinx*)

Baltimore USA; Berlin W. Ge; Calcutta Ind; Cologne Ge; Columbus USA; Goulds USA; Jerez Sp; Karlsruhe Ge; Kokura J; London GB; Los Angeles USA; New York Bronx, USA; Rio de Janeiro Braz; Rome It; Sofia Bul.

Drill (*Mandrillus leucophaeus*)

Calgary Ca; Dehiwala Ceylon; Paignton GB; Philadelphia USA.

Hybrid (*Mandrillus leucophaeus* × *Mandrillus sphinx*)

St. Paul USA.

Gelada Baboon (*Theropithecus gelada*)

Rotterdam N.

Baboon (*Unspecified*)

Eskilstuna Sw; Los Angeles USA.

Langur (*Presbytis* sp)

Bombay Ind.

Kikuyu Colobus (*Colobus polykomos kikuyensis*)

San Diego USA.

Uele Colobus (*Colobus polykomos uellensis*)

New York Bronx USA.

Monkey (*Unspecified*)

Hattiesburg USA; Ahmedabad Ind; Los Angeles USA; Ostrava Cz; Southport GB.

Lar Gibbon (*Hylobates lar*)

Birmingham USA; Chester GB; Copenhagen D; New York Bronx USA; San Diego USA.

Gibbon (*Hylobates* spp)

Columbus USA; Miami Crandon Pk USA; Los Angeles USA.

Orang-utan (*Pongo pygmaeus*)

Frankfurt Ge; Rotterdam N; San Diego USA.

1959 Erratum: *The Editors regret that the Basle and West Berlin Zoos were wrongly listed as having bred Orang-utans in 1959.*

Chimpanzee (*Pan satyrus*)

Chessington GB; Chester GB; Columbus USA; Frankfurt Ge; Mayaguez PR; Pittsburgh USA; Portland USA; Vienna Austria; Washington N.Z.P. USA; Wellington NZ.

Ape (*Unspecified*)

Gdansk Pol.

ORDER LAGOMORPHA

European Hare (*Lepus europaeus*)

Frankfurt Ge; Stendal Ge.

ORDER RODENTIA

Red Squirrel (*Sciurus vulgaris*)

Nuremberg Ge; Warsaw Pol.

Indian Squirrel (*Unspecified*)

Amsterdam N; Calcutta Ind.

Squirrel (*Unspecified*)

Kumasi Gh.

Prairie Dog (*Cynomys ludovicianus*)

Catskill USA; Frankfurt Ge; Philadelphia USA; Quebec Ca; Stuttgart Ge; Tucson USA; Washington N.Z.P. USA; Whipsnade GB.

Mammals Bred in Captivity

- Chipmunk (*Tamias sibiricus*)
Liberec Cz; Prague Cz; Ueno J.
-
- Hokkaido Chipmunk (*Tamias sibiricus asiaticus*)
Ueno J.
-
- Flying Squirrel (*Glaucomys volans*)
Washington N.Z.P. USA.
-
- Canadian Beaver (*Castor canadensis*)
Libertyville USA; Rome It.
-
- European Beaver (*Castor fiber*)
Chessington GB; Leipzig Ge; Rotterdam N;
Whipsnade GB.
-
- Musk Rat (*Ondatra zibethica*)
Bochum Ge.
-
- Brandt's Vole (*Microtis brandti*)
Berlin E. Ge.
-
- Fat-tailed Gerbil (*Pachyuromys duprasi*)
Washington N.Z.P. USA.
-
- Gerbil (*Meriones tamariscinus*)
Berlin E. Ge; Chicago L.P.Z. USA.
-
- Four-toed Jerboa (*Allactaga tetradactyla*)
Washington N.Z.P. USA.
-
- Cane Rat (*Thryonomys swinderianus*)
Kumasi Gh.
-
- Spiny Mouse (*Acomys cahirinus*)
Haifa Is.
-
- Palestine Spiny Mouse (*Acomys cahirinus dimidiatus*)
New York Bronx USA.
-
- Fat Dormouse (*Glis glis*)
Budapest H.
-
- Bush Rat or Degu (*Octodon degus*)
Frankfurt Ge.
-
- Great Field Rat (*Avicantia abyssinicus*)
London GB.
-
- Sand Rat (*Sigmodon hispidus*)
Ueno J.
-
- Alpine Marmot (*Marmota marmota*)
Dortmund Ge; Whipsnade GB.
-
- Woodchuck or Marmot (*Marmota monax*)
Philadelphia USA.
-
- Marmot (*Marmota* sp)
Quebec Ca.
-
- African Brush-tailed Porcupine (*Atherurus africanus*)
Detroit USA; Jerez Sp; Kumasi Gh.
-
- Indian Porcupine (*Hystrix indica*)
Adelaide Austral; Amsterdam N; Dehiwala Ceylon;
Jaipur Ind; Rotterdam N.
-
- Hairy-nosed Porcupine (*Hystrix indica hirsutirostris*)
Berlin E. Ge.
-
- Crestless Himalayan Porcupine or Chinese Porcupine (*Hystrix hodgsoni*)
Santiago Chile.
-
- South African Porcupine (*Hystrix africaeustralis*)
Nuremberg Ge; Pretoria SA.
-
- Crested Porcupine (*Hystrix cristata*)
Antwerp Bel; Budapest H; Cairo UAR; Catskill USA;
Cologne Ge; Hamburg Ge; Liberec Cz; Ostrava Cz; Whipsnade GB.
-
- East African Porcupine (*Hystrix galeata*)
Washington N.Z.P. USA.
-
- African Porcupine (*Unspecified*)
Alexandria UAR; New York Central USA.
-
- Canadian Porcupine (*Erethizon dorsatum*)
Buffalo USA.
-
- Western Porcupine (*Erethizon dorsatum ex-pixanthus*)
Salt Lake City USA; Winnipeg Ca.
-
- Porcupine (*Unspecified*)
Columbus USA; Eskilstuna Sw; Osnabruck Ge;
Phoenix USA; Rangoon Burm; Southport GB;
Tucson USA; Valkenburg N; Zürich Switz.
-
- Lesser Tree Porcupine (*Coendu* sp)
Georgetown BG.
-
- Greater Tree Porcupine (*Coendu* sp)
Georgetown BG.
-
- Capybara (*Hydrochoerus hydrochoeris*)
Caracas V.
-
- Patagonian Cavy or Mara (*Dolichotis patagona*)
Amsterdam N; Antwerp Bel; Calgary Ca; Catskill USA;
Copenhagen D; Frankfurt Ge; Hamburg Ge; Johannesburg SA;
Pretoria SA; Santiago Chile; Tel Aviv Is.

Agouti (*Dasyprocta aguti*)

Adelaide Austral; Arnhem N; Cairo UAR; Georgetown BG; Johannesburg SA; Lodz Pol; London GB; Matsuyama J; Paignton GB; Paris M. Fr; Straubing Ge; Wellington NZ.

Hairy-rumped Agouti (*Dasyprocta prymnolopha*)

Dehiwala Ceylon.

Acouchy (*Myoprocta pratti*)

Calgary Ca.

Chinchilla (*Chinchilla chinchilla*)

Calgary Ca; Ilfracombe GB; London GB; Paignton GB; Southport GB.

Chinchilla (*Chinchilla laniger*)

Basle Switz; New York Bronx USA.

Coypu (*Myocastor coypus*)

Arnhem N; Berlin E. Ge; Calgary Ca; Columbus USA; Dallas USA; Dehiwala Ceylon; Dortmund Ge; Dublin Eire; Göppingen Ge; Ilfracombe GB; Jerez Sp; Liberec Cz; Pretoria SA; Sofia Bul.

ORDER CARNIVORA

Wolf (*Canis lupus*)

Amsterdam N; Ankara T; Antwerp Bel; Baltimore USA; Basle Switz; Budapest H; Glasgow GB; Jerez Sp; Leipzig Ge; Lesna Cz; Liberec Cz; Moose Jaw Ca; Philadelphia USA; Rotterdam N; Traverse USA; Warsaw Pol; Washington N.Z.P. USA; Whipsnade GB; Zürich Switz.

North American Wolf (*Canis lupus nubilus*)

San Diego USA.

Black Wolf (*Canis lupus mexicana*)

Cologne Ge.

Coyote (*Canis latrans*)

Cologne Ge; San Diego USA; Traverse USA; Tucson USA; Zürich Switz.

Jackal (*Canis aureus*)

Amsterdam N; Budapest H; Liberec Cz; Mysore Ind; Naples It; San Diego USA; Sofia Bul; Tel Aviv Is; Warsaw Pol.

Black-backed Jackal (*Canis mesomelas*)

Rome It; Rotterdam N.

New Guinea Wild Dog (*Canis hallstromi*)

Adelaide Austral; San Diego USA; Wellington NZ.

Dingo (*Canis sp*)

Adelaide Austral; Baltimore USA; Barcelona Sp; Budapest H; Chesterfield GB; Jerez Sp; Liberec Cz; London GB; Perth Austral; Poznan Pol; Salt Lake City USA; San Diego USA; Washington N.Z.P. USA; Wellington NZ.

Arctic Fox (*Alopex lagopus*)

Liberec Cz.

Grey Fox (*Urocyon cinereoargenteus*)

San Diego USA.

Guatemala Grey Fox (*Urocyon cinereoargenteus guatemala*)

Albuquerque USA;

Red Fox — Old World (*Vulpes vulpes*)

Helsinki Fi; Paignton GB; Rotterdam N; Sofia Bul.

American Red Fox (*Vulpes fulva*)

(Includes Silver Fox)

Hattiesburg USA; Libertyville USA; Philadelphia USA; Seattle USA; Traverse USA.

Kit Fox (*Vulpes macrotis*)

Salt Lake City USA.

Raccoon Dog (*Nyctereutes procyonoides*)

Liberec Cz; Rostock Ge; Warsaw Pol.

Hunting Dog (*Lycan pictus*)

Berlin E. Ge; Krefeld Ge; New York Bronx USA; Washington N.Z.P. USA.

Brown Bear (*Ursus arctos*)

Arnhem N; Augsburg Ge; Basle Switz; Berlin E. Ge; Berlin W. Ge; Bochum Ge; Brno Cz; Budapest H; Chester GB; Cologne Ge; Dresden Ge; Duisburg Ge; Eskilstuna Sw; Katowice Pol; Kobe J; Krefeld Ge; Kyoto J; Leipzig Ge; Liberec Cz; Lyon Fr; New York Central USA; Nuremberg Ge; Opole Pol; Pretoria SA; Rome It; Rostock Ge; Sofia Bul; Stockholm Sw; Straubing Ge; Tel Aviv Is; Vienna Austria; Warsaw Pol; Washington N.Z.P. USA; Whipsnade GB; Zürich Switz.

Grizzly Bear (*Ursus arctos horribilis*)

Albuquerque USA; Oklahoma USA; St. Paul USA; Seattle USA; Washington N.Z.P. USA.

Kodiak Bear (*Ursus arctos middendorffi*)

Cleveland USA; Detroit USA; Gelsenkirchen Ge; Hamburg Ge; San Diego USA; Seattle USA.

Syrian Bear (*Ursus arctos syriacus*)

London GB; Haifa Is; Jerusalem Is.

American Black Bear (*Ursus americanus*)

Columbus USA; Miami Crandon Pk USA.

Mammals Bred in Captivity

- Glacier Bear or Blue Bear (*Ursus americanus kemodi*)
Detroit USA.
-
- Polar Bear (*Thalarctos maritimus*)
Bremerhaven Ge; Budapest H; Cleveland USA; Copenhagen D; Detroit USA; Madison Ind. USA; Manchester GB; New York Bronx USA; Philadelphia USA; Rome It; St. Paul USA; San Diego USA; Stockholm Sw; Vienna Austria,
-
- Hybrid Bear (*Thalarctos maritimus* × *Ursus arctos middendorffi*)
Washington N.Z.P. USA.
-
- Hybrid Bear (*Thalarctos maritimus* × *Ursus arctos horribilis*)
Libertyville USA.
-
- Himalayan Black Bear or Asiatic Bear (*Selenarctos thibetanus*)
Berlin E. Ge; Birmingham USA; Bremerhaven Ge; Budapest H; Delhi Ind; Leipzig Ge; Opole Pol; St. Paul USA; Wellington NZ.
-
- Japanese Black Bear (*Selenarctos thibetanus japonicus*)
Cleveland USA.
-
- Malay Bear or Sun Bear (*Helarctos malayanus*)
Cleveland USA.
-
- Spectacled Bear (*Tremarctos ornatus*)
Berlin W. Ge; Buenos Aires Arg.
-
- Bear (*Unspecified*)
Traverse USA; Turin It.
-
- Red Panda (*Ailurus fulgens*)
Hamamatsu J.
-
- Raccoon (*Procyon lotor*)
Albuquerque USA; Amsterdam N; Bremerhaven Ge; Brno Cz; Buffalo USA; Dallas USA; Dresden Ge; Dublin Eire; Frankfurt Ge; Hattiesburg USA; Homer USA; Katowice Pol; Liberec Cz; Matsuyama J; Nagoya J; Osnabruck Ge; Paignton GB; Rome It; San Diego USA; Tel Aviv Is; Traverse USA; Warsaw Pol.
-
- Coati (*Nasua nasua*)
Albuquerque USA; Chester GB; Dallas USA; Hamburg Ge; Miami Crandon USA; Seattle USA.
-
- White-nosed Coati (*Nasua narica*)
Frankfurt Ge; Paris M. Fr; San Diego USA; Washington N.Z.P. USA.
-
- Kinkajou (*Potos flavus*)
Albuquerque USA; Berlin W. Ge; Dublin Eire; Frankfurt Ge; Manchester GB.
-
- Pine Marten (*Martes martes*)
Gdansk Pol; Warsaw Pol.
-
- Stone Marten or Beech Marten (*Martes foina*)
Duisburg Ge; Liberec Cz.
-
- Mink (*Mustela vison*)
Chessington GB; Helsinki Fi.
-
- Skunk (*Mephitis* sp)
Zürich Switz.
-
- Polecat (*Mustela putorius*)
Warsaw Pol.
-
- Canadian Otter (*Lutra canadensis*)
Homer USA.
-
- Small Indian Civet or Rasse (*Viverricula indica*)
Delhi Ind.
-
- Small-spotted Genet (*Genetta genetta*)
Duisburg Ge; Prague Cz; Washington N.Z.P. USA.
-
- Large-spotted Genet (*Genetta tigrina*)
Berlin W. Ge; Paignton GB.
-
- Banded Mongoose (*Mungos mungos*)
Berlin W. Ge.
-
- Ichneumon or Egyptian Mongoose (*Herpestes ichneumon*)
Budapest H.
-
- Marsh Mongoose (*Atilax paludinosus*)
Washington N.Z.P. USA.
-
- Meerkat (*Suricata suricatta*)
Cologne Ge; East London SA; Frankfurt Ge.
-
- Spotted Hyaena (*Crocuta crocuta*)
Ahmedabad Ind; Amsterdam N; Barcelona Sp; Dallas USA; Naples It; Warsaw Pol; Zürich Switz.
-
- Hyaena (*Unspecified*)
Sydney Austral.
-
- European Wild Cat (*Felis silvestris*)
Berne Switz.
-
- African Wild Cat or Caffer Cat (*Felis libyca*)
Copenhagen D; Leipzig Ge.
-
- Jungle Cat (*Felis chaus*)
Amsterdam N; Berlin E. Ge; Haifa Is; Liberec Cz; London GB.
-
- Pallas's Cat (*Felis manul*)
Washington N.Z.P. USA.

European Lynx (*Felis lynx*)

Rotterdam N.

Canadian Lynx (*Felis canadensis*)

Winnipeg Ca.

Caracal Lynx (*Felis caracal*)

Amsterdam N; Rotterdam N; Stuttgart Ge.

Serval (*Felis serval*)

Amsterdam N; Basle Switz; Rotterdam N.

Fishing Cat (*Felis viverrina*)

Frankfurt Ge.

Ocelot (*Felis pardalis*)

Catskill USA; Rotterdam N; Stuttgart Ge.

Bobcat (*Felis rufa*)

Albuquerque USA; Hattiesburg USA; Washington N.Z.P. USA.

California Bobcat (*Felis rufa californica*)

Dallas USA; San Diego USA.

Margay (*Felis wiedii tigrina*)

Washington N.Z.P. USA.

African Black-footed Cat (*Felis nigripes*)

Catskill USA.

Puma (*Felis concolor*)

Albuquerque USA; Alexandria UAR; Amsterdam N; Basle Switz; Budapest H; Calcutta Ind; Chester GB; Cleveland USA; Colorado USA; Dallas USA; Detroit USA; Hattiesburg USA; Helsinki Fi; Jerez Sp; Katowice Pol; Leipzig Ge; Liberec Cz; Lodz Pol; London GB; Miami Crandon USA; Naples It; Oklahoma USA; Opole Pol; Portland USA; Pretoria SA; Salt Lake City USA; Sydney Austral; Warsaw Pol; Washington USA; Whipsnade GB.

Leopard (*Panthera pardus*)

Ahmedabad Ind; Alexandria UAR; Amsterdam N; Antwerp Bel; Barcelona Sp; Boston USA; Budapest H; Cairo UAR; Chester GB; Cleveland USA; Colorado USA; Delhi Ind; Detroit USA; Dresden Ge; Dudley GB; Hamburg Ge; Leipzig Ge; Liberec Cz; Lodz Pol; Lyon Fr; Naples It; Oklahoma USA; Pittsburgh USA; Rotterdam N; Salwa Kuwait; Seattle USA; Sofia Bul; Sydney Austral; Ueno J; Vienna Austria; Warsaw Pol; Wellington NZ; Zürich Switz.

Black Leopard (*Panthera pardus*)

Amsterdam N; Barcelona Sp; Berlin W. Ge; Cairo UAR; Chicago L.P.Z. USA; Colorado USA; Dallas USA; Dehiwala Ceylon; Duisburg Ge; Philadelphia USA; Rotterdam N; San Diego USA; Seattle USA.

Tiger (*Panthera tigris*)

Ahmedabad Ind; Amsterdam N; Chicago L.P.Z. USA; Cologne Ge; Copenhagen D; Dehiwala Ceylon; Dresden Ge; Dublin Eire; Jaipur Ind; Kobe J. Kokura J; Krefeld Ge; Naples It; Portland USA; Rangoon Burm; Santiago Chile; Seattle USA; Sydney Austral; Warsaw Pol; Whipsnade GB.

Siberian Tiger or Amur Tiger (*Panthera tigris longipilis*)

Birmingham USA; Detroit USA; Glasgow GB; Philadelphia USA; Rotterdam N; St. Paul USA; Ueno J.

Sumatran Tiger (*Panthera tigris sumatrensis*)

Colorado USA; Rotterdam N.

Lion (*Panthera leo*)

Adelaide Austral; Ahmedabad Ind; Albuquerque USA; Amsterdam N; Ankara T; Antwerp Bel; Arnhem N; Barcelona Sp; Basle Switz; Birmingham USA; Budapest H; Cairo UAR; Calcutta Ind; Caracas V; Chester GB; Chicago L.P.Z. USA; Cleveland USA; Columbus USA; Colorado USA; Copenhagen D; Dallas USA; Delhi Ind; Dehiwala Ceylon; Detroit USA; Dresden Ge; Dublin Eire; Duisburg Ge; Gdansk Pol; Gelsenkirchen Ge; Glasgow GB; Hamburg Ge; Hanover Ge; Hattiesburg USA; Ilfracombe GB; Jerez Sp; Jerusalem Is; Katowice Pol; Kobe J; Kokura J; Leipzig Ge; Lyons Fr; Matsuyama J; Michigan Ind USA; Milwaukee USA; Moose Jaw Ca; Paignton GB; Perth Austral; Philadelphia USA; Pittsburgh USA; Portland USA; Poznan Pol; Pretoria SA; Rangoon Burm; Rome It; Rostock Ge; Rotterdam N; Salwa Kuwait; St. Paul USA; San Diego USA; Seattle USA; Sofia Bul; Sydney Austral; Turin It; Ueno J; Vienna Austria; Warsaw Pol.

Jaguar (*Panthera onca*)

Colorado USA; Dehiwala Ceylon; Frankfurt Ge; Milwaukee USA; Pittsburgh USA; Pretoria SA; Rotterdam N.

Snow Leopard (*Panthera uncia*)

Copenhagen D; Chicago L.P.Z. USA; Washington N.Z.P. USA; Whipsnade GB.

Cheetah (*Acinonyx jubatus*)

Krefeld Ge.

ORDER PINNIPEDIA

Californian Sealion (*Zalophus californianus*)

Dublin Eire; Edinburgh GB; Karlsruhe Ge; Rome It; Seattle USA.

Harbour Seal (*Phoca vitulina*)

Bremerhaven Ge.

Harbour Seal (*Phoca vitulina geronimensis*)

San Diego USA.

ORDER PROBOSCIDEA

Indian Elephant (*Elephas maximus*)
Seoul Kor.

ORDER HYRACOIDEA

Rock Hyrax (*Procapra brucei*)
San Diego USA.

Cape Hyrax (*Procapra capensis*)
Pretoria SA; Tel Aviv Is.

Rock Hyrax (*Procapra ruficeps*)
Rome It.

ORDER PERISSODACTYLA

American Tapir (*Tapirus terrestris*)
Arnhem N; Frankfurt Ge; Leipzig Ge; Nagoya J;
Paris P Z Fr; Rotterdam N; San Diego USA.

Indian Rhinoceros (*Rhinoceros unicornis*)
Whipsnade GB.

Black Rhinoceros (*Diceros bicornis*)
Pittsburgh USA; Rotterdam N.

Mountain Zebra (*Equus zebra*)
Augsburg Ge; Philadelphia USA.

Grevy's Zebra (*Equus grevyi*)
Colorado USA; Rome It.

Common Zebra (*Equus burchelli*)
(Includes Grant's Zebra)
Alexandria UAR; Barcelona Sp; Berlin E. Ge;
Berlin W. Ge; Chester GB; Copenhagen D; Dallas
USA; Detroit USA; Duisburg Ge; Hamburg Ge;
Karlsruhe Ge; Michigan Ind USA; Nagoya J; New
York Bronx USA; New York Central USA;
Nuremberg Ge; Oklahoma USA; Paris P.Z. Fr;
Philadelphia USA; Poznan Pol; Rome It; Santiago
Chile; Seattle USA; Stuttgart Ge; Tel Aviv Is;
Vienna Austria; Washington N.Z.P. USA; Whip-
snade GB; Zürich Switz.

Zebra (*Equus spp*)
Basle Switz; Cleveland USA; Fresno USA;
Mayaguez PR; Milwaukee USA.

Onager (*Equus hemionus*)
Catskill USA; Hamburg Ge; Leipzig Ge.

African Wild Ass (*Equus asinus africanus*)
Catskill USA.

Hybrid (*Equus asinus atlanticus* × *Equus bur-
chelli*)
Lyon Fr.

Przewalski's Horse (*Equus przewalskii*)
Antwerp Bel; Catskill USA; Copenhagen D;
Duisburg Ge; Prague Cz; Rotterdam N; Whipsnade
GB.

ORDER ARTIODACTYLA

Wild Boar (*Sus scrofa*)
Antwerp Bel; Barcelona Sp; Basle Switz; Berlin E.
Ge; Berlin W. Ge; Berne Switz; Buenos Aires Arg;
Cologne Ge; Copenhagen D; Dortmund Ge;
Duisburg Ge; Helsinki Fi; Jaipur Ind; Katowice Pol;
Mysore Ind; Nagoya J; Nuremberg Ge; Skanes Sw;
Stendal Ge; Stockholm Sw; Wassenaar N.

Japanese Wild Boar (*Sus scrofa leucomystax*)
Kokura J; Tama J.

Bush Pig (*Potamochoerus porcus koisopotamus*)
East London SA.

Warthog (*Phacochoerus aethiopicus*)
Bloemfontein SA; Cairo UAR; Frankfurt Ge.

Collared Peccary (*Tayassu tajacu*)
Berlin E. Ge; Detroit USA; Hanover Ge; Jerez Sp;
Poznan Pol; Rio de Janeiro Braz; Santiago Chile;
Seattle USA; Whipsnade GB; Zürich Switz.

White-lipped Peccary (*Tayassu pecari*)
Georgetown BG.

Peccary (*Tayassu spp*)
Calgary Ca; Caracas V.

Hippopotamus (*Hippopotamus amphibius*)
Amsterdam N; Antwerp Bel; Berlin W. Ge;
Budapest H; Buenos Aires Arg; Cleveland USA;
Dallas USA; Frankfurt Ge; Karlsruhe Ge; Kobe J;
Leipzig Ge; Milan It; Naples It; New York Central
USA; Nuremberg Ge; Philadelphia USA; Rio de
Janeiro Braz; San Diego USA; Trivandrum Ind;
Ueno J; Whipsnade GB.

Pigmy Hippopotamus (*Choeropsis liberiensis*)
Basle Switz; New York Bronx USA.

Bactrian Camel (*Camelus bactrianus*)
Antwerp Bel; Barcelona Sp; Berlin E. Ge; Budapest
H; Cologne Ge; Copenhagen D; Dallas USA;
Gelsenkirchen Ge; Hanover Ge; Karlsruhe Ge;
Leipzig Ge; Liberec Cz; Nuremberg Ge; Pittsburgh
USA; Rome It; Tama J; Whipsnade GB.

Arabian Camel (*Camelus dromedarius*)

Albuquerque USA; Barcelona Sp; Berlin W. Ge; Cologne Ge; Dublin Eire; Duisburg Ge; Eskilstuna Sw; Fort Worth USA; Fresno USA; Leipzig Ge; Oklahoma USA; Sofia Bul.

Camel (*Camelus spp*)

Basle Switz; Valkenburg N.

Llama (*Lama glama*)

Adelaide Austral; Antwerp Bel; Arnhem N; Augsburg Ge; Avon USA; Baltimore USA; Berlin E. Ge; Berlin W. Ge; Boston USA; Budapest H; Buenos Aires Arg; Chicago L.P.Z. USA; Cologne Ge; Colorado USA; Dehiwala Ceylon; Detroit USA; Dortmund Ge; Dublin Eire; Fresno USA; Glasgow GB; Hanover Ge; Hattiesburg USA; Jerez Sp; Leipzig Ge; Liberec Cz; Libertyville USA; Lincoln Neb USA; Madison Wis USA; Mayaguez PR; Milan It; Mulhouse Fr; New York Bronx USA; New York Central USA; Ostrava Cz; Paris Fr; Philadelphia USA; Pittsburgh USA; Portland USA; Poznan Pol; Pretoria SA; Rome It; Rostock Ge; St. Paul USA; San Diego USA; Santiago Chile; Seattle USA; Sofia Bul; Southport GB; Turin It; Ueno J; Valkenburg N; Vienna Austria; Washington N.Z.P. USA; Wellington NZ; Whipsnade GB; Zürich Switz.

Guanaco (*Lama huanacus*)

Avon USA; Baltimore USA; Berlin E. Ge; Berlin W. Ge; Bremerhaven Ge; Buenos Aires Arg; Buffalo USA; Catskill USA; Cleveland USA; Chicago L.P.Z. USA; Cologne Ge; Dallas USA; Dehiwala Ceylon; Duisburg Ge; Eskilstuna Sw; Hamburg Ge; Krefeld Ge; Leipzig Ge; Lesna Cz; Lincoln Neb USA; Lodz Pol; Mayaguez PR; Michigan USA; New York Bronx USA; Oklahoma USA; Osnabruck Ge; Paris Fr; Philadelphia USA; Portland USA; Poznan Pol; Quebec Ca; Rome It; San Diego USA; Santiago Chile; Straubing Ge; Wellington NZ; Whipsnade GB; Winnipeg Ca.

Vicuna (*Lama vicugna*)

Amsterdam N; Zürich Switz.

Peruvian Vicuna (*Lama vicugna mensalis*)

San Diego USA.

Alpaca (*Lama pacos*)

Antwerp Bel; Augsburg Ge; Rome It; San Diego USA; Santiago Chile.

Hybrid (*Lama pacos* × *Lama vicugna*)

Santiago Chile.

Giraffe (*Giraffa camelopardalis*)

Basle Switz; Bristol GB; Columbus USA; Dallas USA; Fort Worth USA; Fresno USA; London GB; Milan It; Paris PZ Fr; Rome It; Sydney Austral; Ueno J.

Reticulated Giraffe (*Giraffa camelopardalis reticulata*)

Colorado USA; Dublin Eire.

Okapi (*Okapia johnstoni*)

Antwerp Bel; Basle Switz; Frankfurt Ge; Rotterdam N.

Indian Spotted Chevrotain or Mouse Deer (*Tragulus meminna*)

Dehiwala Ceylon; Mysore Ind; Paris PZ Fr.

Mouse Deer (*Tragulus sp*)

Bombay Ind.

Muntjac or Barking Deer (*Muntiacus muntjak*)

Adelaide Austral; Berlin W. Ge; Dallas USA; Dehiwala Ceylon; Delhi Ind; Hanover Ge; Paris PZ Fr; Pittsburgh USA; Pretoria SA; Rangoon Burm; Tama J.

Reeve's Muntjac (*Muntiacus reevesi*)

Albuquerque USA; Catskill USA; Cleres Fr; Hamburg Ge; New York Bronx USA; San Diego USA; Ueno J.

Fallow Deer (*Dama dama*)

Adelaide Austral; Albuquerque USA; Amsterdam N; Antwerp Bel; Arnhem N; Avon USA; Barcelona Sp; Basle Switz; Berlin E. Ge; Berlin W. Ge; Berne Switz; Bloemfontein SA; Bochum Ge; Bojnice Cz; Bombay Ind; Brno Cz; Budapest H; Buenos Aires Arg; Buffalo USA; Calgary Ca; Catskill USA; Chester GB; Chicago L.P.Z. USA; Cologne Ge; Columbus USA; Colorado USA; Dortmund Ge; Dresden Ge; Dublin Eire; Duisburg Ge; East London SA; Edinburgh GB; Eskilstuna Sw; Hamburg Ge; Hanover Ge; Hattiesburg USA; Helsinki Fi; Jerez Sp; Jerusalem Is; Johannesburg SA; Katowice Pol; Krefeld Ge; Leipzig Ge; Lesna Cz; Liberec Cz; Libertyville USA; Lincoln Neb USA; Lyon Fr; Mulhouse Fr; Mysore Ind; New York Bronx USA; Nuremberg Ge; Oklahoma USA; Osnabruck Ge; Paris M. Fr; Paris P.Z. Fr; Philadelphia USA; Pittsburgh USA; Poznan Pol; Pretoria SA; Quebec Ca; Rangoon Burm; Rio de Janeiro Braz; Rome It; Rostock Ge; Rotterdam N; St. Paul USA; Salt Lake City USA; San Diego USA; Santiago Chile; Seattle USA; Skanes Sw; Sofia Bul; Stockholm Sw; Stendal Ge; Stuttgart Ge; Sydney Austral; Vienna Austria; Washington N.Z.P. USA; Wellington NZ; Whipsnade GB; Winnipeg Ca; Zürich Switz.

Persian Fallow Deer (*Dama dama mesopotamica*)

Kronberg Ge.

Axis Deer or Spotted Deer or Chital (*Axis axis*)

Amsterdam N; Barcelona Sp; Berlin E. Ge; Berlin W. Ge; Bombay Ind; Buenos Aires Arg; Cairo UAR; Calcutta Ind; Catskill USA; Cleveland USA; Cologne Ge; Copenhagen D; Dallas USA; Dehiwala Ceylon; Delhi Ind; Dortmund Ge; Duisburg Ge; Hamburg Ge; Hanover Ge; Jaipur Ind; Leipzig Ge; London GB; New York Bronx USA; Paris M. Fr; Paris P.Z. Fr; Pittsburgh USA; Rangoon Burm; Rome It; San Diego USA; Seattle USA; Stuttgart Ge; Tel Aviv Is; Ueno J; Vienna Austria; Washington N.Z.P. USA; Whipsnade GB.

Hog Deer (*Axis porcinus*)

Berlin W. Ge; Cairo UAR; Dehiwala Ceylon; Gelsenkirchen Ge; Hanover Ge; Johannesburg SA; London GB; Paris P.Z. Fr; Pretoria SA; Rangoon Burm; Rome It; Whipsnade GB.

Sambhar Deer (*Cervus unicolor*)

Berlin E. Ge; Bombay Ind; Cairo UAR; Dehiwala Ceylon; Hanover Ge; Johannesburg SA; Mysore Ind; New York Bronx USA; Pretoria SA; Rangoon Burm; Rio de Janeiro Braz; Tama J; Sydney Austral; Wassenaar N.

Timor Deer (*Cervus unicolor timorensis*)

London GB.

Swamp Deer or Barasingha (*Cervus duvauceli*)

Basle Switz; Calcutta Ind; Catskill USA; Cleveland USA; New York Bronx USA; Oklahoma USA; Philadelphia USA; Whipsnade GB.

Thamin or Eld's Deer (*Cervus eldi*)

Calcutta Ind; Rangoon Burm.

Sika Deer or Japanese Deer (*Cervus nippon*)

Amsterdam N; Antwerp Bel; Avon USA; Basle Switz; Buffalo USA; Budapest H; Calgary Ca; Catskill USA; Cleveland USA; Cologne Ge; Columbus USA; Detroit USA; Eskilstuna Sw; Helsinki Fi; Kobe J; Kokura J; Kyoto J; Leipzig Ge; Lincoln Neb USA; Matsuyama J; Mulhouse Fr; Nagoya J; New York Bronx USA; New York Central USA; Paris M. Fr; Philadelphia USA; Pittsburgh USA; Rangoon Burm; San Diego USA; Sofia Bul; Tama J; Ueno J; Vienna Austria; Washington N.Z.P. USA; Wellington NZ; Whipsnade GB; Zürich Switz.

Dybowsk's Deer or Manchurian Sika Deer (*Cervus nippon hortulorum*)

Antwerp Bel; Basle Switz; Berlin E. Ge; Bojnice Cz; Copenhagen D; Frankfurt Ge; Hanover Ge; Lesna Cz; Leipzig Ge; Liberec Cz; Mulhouse Fr; Nuremberg Ge; Paris M. Fr; Paris P.Z. Fr; Pittsburgh USA; Vienna Austria.

Formosan Deer (*Cervus nippon taiouanus*)

Catskill USA; Detroit USA; New York Bronx USA; Ueno J; Whipsnade GB; Winnipeg Ca.

Yaku Island Deer (*Cervus nippon yakui*)

Ueno J.

Red Deer (*Cervus elaphus*)

Amsterdam N; Arnhem N; Augsburg Ge; Barcelona Sp; Berlin E. Ge; Berlin W. Ge; Berne Switz; Budapest H; Chessington GB; Cologne GB; Copenhagen D; Dortmund Ge; Duisburg Ge; Eskilstuna Sw; Gelsenkirchen Ge; Helsinki Fi; Jerez Sp; Jerusalem Is; Katowice Pol; Kronberg Ge; Leipzig Ge; Milwaukee USA; Mulhouse Fr; New York Central USA; Nuremberg Ge; Oklahoma USA; Osnabruck Ge; Paignton GB; Paris M. Fr; Paris P.Z. Fr; Pittsburgh USA; Poznan Pol; Pretoria SA; Rostock Ge; Santiago Chile; Seattle USA; Skanes Sw; Stendal Ge; Stockholm Sw; Straubing Ge; Sydney Austral; Vienna Austria; Washington N.Z.P. USA; Wellington NZ; Whipsnade GB.

Asiatic Wapiti (*Cervus elaphus asiaticus*)

Berlin E. Ge; Lesna Cz.

Turkestan Deer (*Cervus elaphus bactrianus*)

Berlin E. Ge.

American Elk or Wapiti (*Cervus elaphus canadensis*)

Albuquerque USA; Antwerp Bel; Berlin W. Ge; Buffalo USA; Calgary Ca; Catskill USA; Colorado USA; Copenhagen D; Dallas USA; Detroit USA; Gelsenkirchen Ge; Hamburg Ge; Hattiesburg USA; Madison Wis USA; Michigan USA; Milwaukee USA; Mulhouse Fr; New York Bronx USA; New York Central USA; Nuremberg Ge; Oklahoma USA; Pittsburgh USA; Rotterdam N; Salt Lake City USA; San Diego USA; Seattle USA; Sofia Bul; Sydney Austral; Traverse USA; Washington N.Z.P. USA; Whipsnade GB.

Père David's Deer (*Elaphurus davidianus*)

Basle Switz; Cleveland USA; New York Bronx USA; Rotterdam N; Sydney Austral; Whipsnade GB; Winnipeg Ca.

Mule Deer (*Odocoileus hemionus*)

Albuquerque USA; Catskill USA; Colorado USA; Dallas USA; Pittsburgh USA; San Diego USA.

Virginian Deer (*Odocoileus virginianus*)

Albuquerque USA; Antwerp Bel; Avon USA; Baltimore USA; Berlin E. Ge; Berlin W. Ge; Birmingham USA; Buffalo USA; Calgary Ca; Columbus USA; Dallas USA; Hattiesburg USA; Lesna Cz; Milwaukee USA; Philadelphia USA; Pittsburgh USA; Quebec Ca; St. Paul USA; Sydney Austral; Washington N.Z.P. USA; Whipsnade GB; Winnipeg Ca.

Costa Rican Deer (*Odocoileus virginianus* spp)

Miami Crandon Pk USA; Milwaukee USA; Pittsburgh USA; Quebec Ca.

Moose or European Elk (*Alces alces*)
 Calgary Ca; Leipzig Ge; Stockholm Sw.

Reindeer (*Rangifer tarandus*)

Antwerp Bel; Berlin E. Ge; Catskill USA; Cologne Ge; Colorado USA; Dallas USA; Detroit USA; Dortmund Ge; Eskilstuna Sw; Gdansk Pol; Helsinki Fi; Leipzig Ge; New York Bronx USA; Nuremberg Ge; Paris P.Z. Fr; Philadelphia USA; Rome It; Rostock Ge; Rotterdam N; San Diego USA; Stockholm Sw; Vienna Austria; Warsaw Pol; Washington N.Z.P. USA.

Chinese Water Deer (*Hydropotes inermis*)

Berlin E. Ge; Budapest H; Copenhagen D; New York Bronx USA; Rotterdam N; Whipsnade GB.

Roe Deer (*Capreolus capreolus*)

Avon USA; Basle Switz; Berlin E. Ge; Osnabruck Ge; Skanes Sw; Warsaw Pol.

Siberian Roe (*Capreolus capreolus pygargus*)

Berlin E. Ge.

Deer (*Unspecified*)

Ahmedabad Ind; Boston USA; Los Angeles USA; Traverse USA.

Greater Kudu (*Tragelaphus strepsiceros*)

Amsterdam N; Chicago L.P.Z. USA; Frankfurt Ge; Hamburg Ge; Johannesburg SA; Pretoria SA; Rotterdam N; Zürich Switz.

Lesser Kudu (*Tragelaphus imberbis*)

Basle Switz; Paris P.Z. Fr; Rome It; San Diego USA.

Bushbuck (*Tragelaphus scriptus*)

Hanover Ge; Johannesburg SA; Paris P.Z. Fr; Rome It.

Sitatunga (*Tragelaphus spekei*)

Antwerp Bel; Berlin W. Ge; Cleveland USA; Cologne Ge; Copenhagen D; Dresden Ge; Frankfurt Ge; Paris P.Z. Fr; Sydney Austral; Washington N.Z.P. USA.

Nyala (*Tragelaphus angasi*)

New York Bronx USA; Pretoria SA.

Eland (*Taurotragus oryx*)

Baltimore USA; Berlin E. Ge; Birmingham USA; Bloemfontein SA; Buffalo USA; Cairo UAR; Catskill USA; Cleveland USA; Cologne Ge; Colorado USA; Detroit USA; Dresden Ge; Duisberg Ge; Frankfurt Ge; Hamburg Ge; Karlsruhe Ge; Kronberg Ge; Los Angeles USA; Miami Crandon Pk USA; Mysore Ind; Nagoya J; New York Bronx USA; Nuremberg Ge; Paris P.Z. Fr; Pretoria SA; Rome It; Rotterdam N; Sydney Austral; Ueno J; Whipsnade GB.

Nilgai (*Boselaphus tragocamelus*)

Alexandria UAR; Berlin E. Ge; Berlin W. Ge; Bojnice Cz; Bombay Ind; Calcutta Ind; Dallas USA; Dehiwala Ceylon; Dortmund Ge; Dresden Ge; Duisburg Ge; Gdansk Pol; Jaipur Ind; Johannesburg SA; Leipzig Ge; Lodz Pol; Los Angeles USA; Manchester GB; Mulhouse Fr; Mysore Ind; Paris P.Z. Fr; Philadelphia USA; Pittsburgh USA; Poznan Pol; Pretoria SA; Rangoon Burm; Rome It; Rostock Ge; Rotterdam N; Santiago Chile; Sofia Bul; Stuttgart Ge; Tama J; Whipsnade GB.

Asiatic Buffalo (*Bubalus bubalis*)

Amsterdam N; Antwerp Bel; Arnhem N; Augsburg Ge; Berlin W. Ge; Brno Cz; Katowice Pol; Lincoln Neb USA; Los Angeles USA; Lyons Fr; Nuremberg Ge; Paris M. Fr; Paris P.Z. Fr; Pretoria SA; Vienna Austria.

Pigmy Buffalo or Anoa (*Anoa depressicornis*)

San Diego USA.

Banteng (*Bos banteng*)

Antwerp Bel; Berlin W. Ge; Philadelphia USA.

Hybrid (*Bos javanicus* × *Bos banteng*)

Rotterdam N.

Cape Buffalo (*Bos caffer*)

Dresden Ge.

Yak (*Bos grunniens*)

Amsterdam N; Antwerp Bel; Arnhem N; Baltimore USA; Basle Switz; Berlin E. Ge; Berlin W. Ge; Brno Cz; Budapest H; Buffalo USA; Cleveland USA; Cologne Ge; Duisburg Ge; Hamburg Ge; Hanover Ge; Leipzig Ge; Liberec Cz; Milwaukee USA; Mulhouse Fr; New York Bronx USA; New York Central USA; Nuremberg Ge; Osnabruck Ge; Paris M. Fr; Pittsburgh USA; Rome It; Rostock Ge; Sofia Bul; Vienna Austria; Wassenaar N; Winnipeg Ca.

American Bison (*Bison bison*)

Adelaide Austral; Albuquerque USA; Antwerp Bel; Arnhem N; Augsburg Ge; Baltimore USA; Basle Switz; Berlin E. Ge; Berlin W. Ge; Birmingham USA; Budapest H; Buenos Aires Arg; Chester GB; Cologne Ge; Copenhagen D; Dallas USA; Dresden Ge; Dudley GB; Hamburg Ge; Hattiesburg USA; Lesna Cz; Libertyville USA; Los Angeles USA; Madison Wis USA; Miami Crandon Pk USA; Michigan Ind USA; Mulhouse Fr; New York Bronx USA; Nuremberg Ge; Oklahoma USA; Paris P.Z. Fr; Poznan Pol; Quebec Ca; Rome It; Rotterdam N; Salt Lake City USA; St. Paul USA; Santiago Chile; Seattle USA; Ueno J; Vienna Austria; Wellington NZ; Whipsnade GB; Winnipeg Ca; Zürich Switz.

European bison (*Bison bonasus*)

Amsterdam N; Basle Switz; Berlin E. Ge; Berlin W. Ge; Budapest H; Copenhagen D; Duisburg Ge; Rotterdam N; Stockholm Sw.

Mammals Bred in Captivity

Bay Duiker (*Cephalophus dorsalis castaneus*)
New York Bronx USA.

Maxwell's Duiker (*Cephalophus coerulens*)
Antwerp Bel; Jerez Sp.

Common Duiker or Grey Duiker (*Sylvicapra grimmia*)
Antwerp Bel; Dehiwala Ceylon; Jos Nig; Paris P.Z. Fr; Pretoria SA.

Duiker (*Unspecified*)
Kumasi Gh; Tel Aviv Is.

Waterbuck (*Kobus ellipsiprymnus*)
Pretoria SA.

Defassa Waterbuck (*Kobus defassa*)
Cairo UAR.

Lechwe Waterbuck (*Kobus leche*)
Chester GB; Detroit USA; Johannesburg SA; Pretoria SA; Rome It.

Nile Lechwe Waterbuck (*Kobus megaceros*)
Cairo UAR.

Uganda Kob (*Kobus thomasi*)
Manchester GB; Philadelphia USA; Rome It.

Reedbuck (*Redunca arundinum*)
Johannesburg SA.

Bohor Reedbuck (*Redunca redunca*)
Paris M. Fr.

Mountain Reedbuck (*Redunca fulvonifula*)
Bloemfontein SA; Pretoria SA.

Sable Antelope (*Hippotragus niger*)
Catskill USA; Pretoria SA.

East African Sable Antelope (*Hippotragus niger roosevelti*)
San Diego USA.

Gemsbok (*Oryx gazella*)
Berlin W. Ge; Cologne Ge; Hanover Ge; Johannesburg SA; Pretoria SA; Oklahoma USA.

Beisa Oryx (*Oryx gazella beisa*)
Antwerp Bel; Basle Switz; Calcutta Ind; Chester GB; Cologne Ge; Dallas USA; Dehiwala Ceylon; London GB.

Scimitar-horned Oryx (*Oryx tao*)
Antwerp Bel; Cairo UAR; Paris P.Z. Fr.

Oryx (*Oryx* sp)
Mysore Ind.

Oryx Hybrid
Hanover Ge.

Blesbok (*Damaliscus dorcas*)
Amsterdam N; Duisburg Ge; Pretoria SA.

Bontebok (*Damaliscus dorcas pygargus*)
Pretoria SA.

Hartebeest (*Alcelaphus buselaphus*)
Dresden Ge.

Coke's Hartebeest (*Alcelaphus buselaphus cokei*)
Pittsburgh USA.

Cape Hartebeest (*Alcelaphus buselaphus caama*)
Amsterdam N.

White-tailed Gnu (*Connochaetes gnou*)
Amsterdam N; Barcelona Sp; Frankfurt Ge; Johannesburg SA; Nuremberg Ge; Rome It; Whipsnade GB; Zürich Switz.

Brindled Gnu (*Connochaetes taurinus*)
Chester GB; Cologne Ge; Krefeld Ge; Liberec Cz; Los Angeles USA; Pretoria SA; Tel Aviv Is.

White-bearded Gnu (*Connochaetes taurinus albojubatus*)
Berlin E. Ge; Hamburg Ge; Naples It; Rome It; Whipsnade GB.

Gnu (*Connochaetes* spp)
Mysore Ind; Sydney Austral.

Oribi (*Ourebia ourebi montana*)
Cairo UAR.

Gerenuk (*Litocranius walleri*)
Frankfurt Ge.

Blackbuck (*Antelope cervicapra*)
Albuquerque USA; Amsterdam N; Barcelona Sp; Bombay Ind; Buenos Aires Arg; Cairo UAR; Calcutta Ind; Catskill USA; Cleveland USA; Copenhagen D; Dallas USA; Dehiwala Ceylon; Dortmund Ge; Dresden Ge; Duisburg Ge; Fresno USA; Hamburg Ge; Hanover Ge; Jaipur Ind; Jerusalem Is; Kronberg Ge; Miami Crandon Pk USA; New York Bronx USA; Nuremberg Ge; Pittsburgh USA; Philadelphia USA; Pretoria SA; Rostock Ge; Rotterdam N; San Diego USA; Sofia Bul; Sydney Austral.

Saiga Antelope (*Saiga tatarica*)
London GB.

Impala (*Aepyceros melampus*)
Johannesburg SA; Pretoria SA.

Antelope (*Unspecified*)

Ahmedabad Ind; Clères Fr.

Dorcas Gazelle (*Gazella dorcas*)

Barcelona Sp; Cairo UAR; Detroit USA; Kronberg Ge; Jerez Sp; Naples It; Rome It.

Korin Gazelle (*Gazella rufifrons*)

Cairo UAR.

Mountain Gazelle (*Gazella gazella*)

Delhi Ind; Haifa Is; Jaipur Ind; Tel Aviv Is.

Goitred Gazelle or Persian Gazelle (*Gazella subgutturosa*)

Cairo UAR; Karlsruhe Ge, Zürich Switz.

Grant's Gazelle (*Gazella granti*)

Paris P.Z. Fr; San Diego USA.

Heuglin's Gazelle (*Gazella tilonura*)

Rome It.

Thomson's Gazelle (*Gazella thomsoni*)

Whipsnade GB.

Speke's Gazelle (*Gazelle spekei*)

Antwerp Bel; Chicago L.P.Z. USA.

Springbok (*Antidorcas marsupialis*)

Amsterdam N; Bloemfontein SA; Cairo UAR; Johannesburg SA; Philadelphia USA; Pretoria SA; San Diego USA.

Chamois (*Rupicapra rupicapra*)

Berne Switz; Kronberg Ge; Vienna Austria.

Thar (*Hemitragus jemlahicus*)

Amsterdam N; Colorado USA; Detroit USA; Johannesburg SA; Philadelphia USA; Sydney Austral.

Wild Goat (*Capra hircus aegagrus*)

Amsterdam N; Ankara T; Berlin W. Ge; Berne Switz; Brno Cz; Vienna Austria.

Alpine Ibex (*Capra ibex*)

Amsterdam N; Barcelona Sp; Berlin W. Ge; Berne Switz; Catskill USA; Frankfurt Ge; Helsinki Fi; Vienna Austria.

Nubian Ibex or Beden (*Capra ibex nubiana*)

Cairo UAR; Catskill USA.

Siberian Ibex (*Capra ibex sibirica*)

Catskill USA; New York Bronx USA; Paris M. Fr; Prague Cz.

Caucasian Tur (*Capra caucasica*)

Catskill USA.

Markhor (*Capra falconeri*)

Catskill USA.

Ibex (*Capra sp*)

Cleveland USA.

Barbary Sheep or Aoudad or Maned Sheep (*Ammotragus lervia*)

Adelaide Austral; Albuquerque USA; Alexandria UAR; Antwerp Bel; Arnhem N; Basle Switz; Berlin W. Ge; Boston USA; Brno Cz; Buffalo USA; Budapest H; Cairo UAR; Calgary Ca; Cleveland USA; Columbus USA; Copenhagen D; Dallas USA; Detroit USA; Dudley GB; Edinburgh GB; Eskilstuna Sw; Frankfurt Ge; Hamburg Ge; Helsinki Fi; Ilfracombe GB; Jerusalem Is; Johannesburg SA; Katowice Pol; Leipzig Ge; Libertyville USA; London GB; Lyons Fr; Manchester GB; Miami Crandon Pk USA; Michigan Ind USA; Milan It; Mysore Ind; Nagoya J; Paris P.Z. Fr; Pittsburgh USA; Philadelphia USA; Poznan Pol; Pretoria SA; Rotterdam N; San Diego USA; Stuttgart Ge; Tel Aviv Is; Ueno J; Vienna Austria; Warsaw Pol; Washington N.Z.P. USA.

Bighorn Sheep (*Ovis canadensis*)

Calgary Ca; London GB; San Diego USA.

Nelson's Bighorn Sheep (*Ovis canadensis nelsoni*)

San Diego USA.

Mouflon (*Ovis musimon*)

Amsterdam N; Arnhem N; Basle Switz; Berlin E. Ge; Berlin W. Ge; Berne Switz; Bojnice Cz; Boston USA; Budapest H; Calgary Ca; Catskill USA; Cleveland USA; Columbus USA; Dortmund Ge; Dudley GB; Eskilstuna Sw; Frankfurt Ge; Helsinki Fi; Johannesburg SA; Katowice Pol; Lesna Cz; Leipzig Ge; Liberec Cz; London GB; Lyon Fr; Moose Jaw Ca; New York Bronx USA; Paris P.Z. Fr; Pittsburgh USA; Portland USA; Poznan Pol; Rio de Janeiro Braz; Rotterdam N; San Diego USA; Santiago Chile; Seattle USA; Sofia Bul; Stuttgart Ge; Vienna Austria; Whipsnade GB.

Asiatic Mouflon (*Ovis orientalis*)

Cologne Ge; Paris M. Fr.

Argali (*Ovis ammon*)

Antwerp Bel.

Pronghorn (*Antilocapra americana*)

Albuquerque USA; Dallas USA; Fort Worth USA; San Diego USA.