

# LONGEVITY OF MAMMALS IN CAPTIVITY

by Marvin L. Jones\*

(This is the first compilation of its kind undertaken by the author for many years — Editor)

The author has been collecting information on the longevity of captive mammals, primarily in zoological gardens, since 1941. In 1958 a mimeographed listing was distributed to a number of zoos and individuals with the data available at that time. This formed the basis for many of the records cited by Crandall (1964) the most recent published text. A summary of several updated records were published in the Newsletter of the American Association of Zoological Parks and Aquariums in 1972. This is the first compilation showing records for every mammalian family in which a species has lived for one year or more in captivity.

In recent years more and more zoological collections have given the author access

to their data files, which in many instances has revealed new records to those previously collected. The files of about 100 zoos have been carefully examined. Those families which are of more current interest, may have more than one species listed. When two records represent the maximum captive longevity and they are out of the ordinary captive life span, both have been shown. The year is that in which the specimen died; if living at that time (or now) an asterisk (\*) follows the year. For those specimens with no recorded date of death it means that the animal may well have survived many years. All specimens shown as living in 1978 were as of 1 September, 1978. Information on specific zoos holding these records are available from the author on request.

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## LONGEVITY OF MAMMALS IN CAPTIVITY

cb = captive born

### MONOTREMATA

<i>Tachyglossidae</i>			
<i>Tachyglossus aculeatus</i> , Australian echidna	49 yr	5 mo	1953
<i>Zaglossus bruijini nigroaculeata</i> , Black-spined New Guinea echidna	34 yr	1 mo	1972
	30 yr	8 mo	1943
<i>Ornithorhynchidae</i>			
<i>Ornithorhynchus anatinus</i> , platypus	17 yr	0 mo	1956
	11 yr	7 mo	1955

### MARSUPIALIA

<i>Didelphidae</i>			
<i>Caluromysiops irrupta</i> , Black-shouldered opossum	7 yr	7 mo	1975
<i>Dasyuridae</i>			
<i>Sarcophilus harrisi</i> , Tasmanian devil	8 yr	2 mo	1850
<i>Myrmecobiidae</i>			
<i>Myrmecobius fasciatus</i> , numbat	5 yr	3 mo	1974
<i>Peramelidae</i>			
<i>Thylacomys lagotis</i> , Rabbit-eared bandicoot	7 yr	2 mo	(1)
<i>Peroryctes raffrayanus</i> , New Guinea bandicoot	3 yr	3 mo	1973
<i>Phalangeridae</i>			
<i>Trichosurus vulpecula</i> , Gray Brush-tailed possum	14 yr	8 mo	1904
<i>Petaurus breviceps</i> , Lesser Gliding possum	14 yr	0 mo	1945
<i>Phascolarctos cinereus</i> , koala	cb 17 yr	0 mo	1978
<i>Phascolomyidae</i>			
<i>Vombatus ursinus</i> , Common wombat	26 yr	0 mo	1906
	26 yr	0 mo	1954
<i>Macropodidae</i>			
<i>Wallabia rufogrisea fruticosa</i> , Bennett's wallaby	15 yr	2 mo	1966
<i>Macropus robustus erubescens</i> , Euro wallaroo	cb 19 yr	7 mo	1960
<i>Dendrolagus goodfellowi</i> , Goodfellow's Tree kangaroo	13 yr	1 mo	1976*

### INSECTIVORA

<i>Solenodontidae</i>			
<i>Solenodon paradoxus</i> , Hispaniolan solenodon	8 yr	11 mo	1976
	(12 yr)	0 mo	
<i>Tenrecidae</i>			
<i>Setifer setosus</i> , Hedgehog tenrec	10 yr	6 mo	1971
<i>Echinops telfairi</i> , Small Hedgehog tenrec	13 yr	0 mo	1976
<i>Erinaceidae</i>			
<i>Erinaceus albiventris</i> , White-bellied hedgehog	6 yr	3 mo	1973
<i>Macroscelididae</i>			
<i>Elephantulus intufi alexandri</i> , Damara Short-eared Elephant shrew	8 yr	9 mo	1967
<i>Soricidae</i>			
<i>Blarina brevicauda kirtlandi</i> , Short-tailed shrew	2 yr	3 mo	1960
<i>Talpidae</i>			
<i>Scalopus aquaticus</i> , American mole	1 yr	11 mo	1965
<i>DERMOPTERA</i>			
<i>Cynocephalidae</i>			
To the best of my knowledge there have been no records of any colugo ( <i>Cynocephalus</i> ) surviving in captivity for more than a few weeks.			
<i>CHIROPTERA</i>			
<i>Pteropodidae</i>			
<i>Rousettus leachi</i> , Collared Fruit bat	22 yr	11 mo	1918

<i>Pteropus giganteus</i> , Indian Fruit bat	31 yr	0 mo	1978*
<i>Eidolon helvum</i> , Straw-coloured Fruit bat	21 yr	10 mo	1968
<i>Noctilionidae</i>			
<i>Noctilio leporinus rufipes</i> , Fisherman bat	11 yr	1 mo	1978*
<i>Phyllostomatidae</i>			
<i>Artibeus jamaicensis</i> , Mexican Fruit bat	6 yr	3 mo	1972*
<i>Desmodontidae</i>			
<i>Desmodus rotundus murinus</i> , Mexican Vampire bat	8 yr	2 mo	1973*
<i>Vespertilionidae</i>			
<i>Antrozous pallidus pacificus</i> , Pallid bat	4 yr	9 mo	1972
PRIMATES			
<i>Tupaiaidae</i>			
<i>Tupaia glis</i> , Common Tree shrew	12 yr	5 mo	1975
	12 yr	2 mo	1975
<i>Lemuridae</i>			
<i>Lemur macaco</i> , Black lemur	27 yr	1 mo	1937
<i>Lemur fulvus</i> , Brown lemur	30 yr	10 mo	1970
<i>Lemur fulvus x macaco</i> , Hybrid lemur	cb 39 yr	0 mo	1969
<i>Lemur f. albifrons x mongoz</i> , Hybrid lemur	cb 28 yr	6 mo	1949
<i>Microcebus coqueralli</i> , Coquerall's Mouse lemur	cb 15 yr	3 mo	1900
<i>Indridae</i>			
<i>Propithecus verreauxi coqueralli</i> , Coquerall's sifaka	18 yr	2 mo	1977
<i>Daubentoniidae</i>			
<i>Daubentonia madagascariensis</i> , aye aye	23 yr	3 mo	1937
<i>Lorisidae</i>			
<i>Nycticebus coucang</i> , Slow loris	13 yr	4 mo	1977
<i>Perodicticus potto ibeanus</i> , Congo potto	22 yr	4 mo	1977*
<i>Galago senegalensis zanzibaricus</i> , Zanzibar galago	16 yr	6 mo	1977*
<i>Galago crassicaudatus</i> , Grand galago	15 yr	4 mo	1977*
<i>Tarsiidae</i>			
<i>Tarsius syrichta carbonarius</i> , Mindanao tarsier	13 yr	5 mo	1977
<i>Cebidae</i>			
<i>Aotus trivirgatus</i> , dourocouli	cb 18 yr	4 mo	1977
<i>Callicebus moloch</i> , Red titi	12 yr	0 mo	1938
<i>Cacajao calvus</i> , White uakari	19 yr	9 mo	1978*
<i>Pithecia monachus</i> , Humboldt's saki	14 yr	2 mo	1978*
<i>Chiropotes satanas</i> , Black saki	15 yr	0 mo	1953
<i>Alouatta villosa palliata</i> , Mantled howler	11 yr	7 mo	1978*
<i>Cebus capucinus</i> , White-faced capuchin	46 yr	11 mo	1976
<i>Cebus apella</i> , Hooded capuchin	42 yr	7 mo	1976*
<i>Saimiri sciureus</i> , Squirrel monkey	15 yr	3 mo	1976
<i>Ateles geoffroyi</i> , Geoffroy's Spider monkey	27 yr	4 mo	1977*
<i>Ateles g. pan</i> , Schlegel's Spider monkey	33 yr	0 mo	1970
<i>Lagothrix lagothricha</i> , Humboldt's Woolly monkey	25 yr	11 mo	1977*
<i>Callithricidae</i>			

<i>Callithrix jacchus</i> , Common marmoset	11 yr	8 mo	1978*
<i>Cebuella pygmaea</i> , Pygmy marmoset	10 yr	10 mo	1978*
<i>Saguinus midas</i> , Red-handed tamarin	13 yr	3 mo	1978*
<i>Saguinus imperator</i> , Emperor tamarin	16 yr	4 mo	1977*
<i>Saguinus nigricollis</i> , White-lipped tamarin	13 yr	11 mo	1975*
<i>Saguinus oedipus</i> , Cotton-top tamarin	13 yr	6 mo	1978*
<i>Leontideus rosalia</i> , Golden Lion tamarin	14 yr	2 mo	1978*
<i>Cercopithecidae</i>			
<i>Macaca fascicularis</i> , Crab-eating macaque	37 yr	1 mo	1971
<i>Macaca fuscata</i> , Japanese macaque	33 yr	0 mo	1966*
<i>Macaca speciosa arctoides</i> , Red-faced macaque	30 yr	0 mo	1967
<i>Cercocebus aterrimus</i> , Black Crested mangabey	25 yr	5 mo	1978*
<i>Cercocebus albigena</i> , Gray-cheeked mangabey	32 yr	8 mo	1962
<i>Papio hamadryas</i> , Hamadryas baboon	37 yr	6 mo	1972
<i>Papio sphinx</i> , mandrill	31 yr	8 mo	1966
<i>Theropithecus gelada</i> , gelada	19 yr	2 mo	1978*
<i>Cercopithecus diana</i> , Diana monkey	27 yr	3 mo	1967*
<i>Cercopithecus campbelli</i> , Campbell's monkey	29 yr	3 mo	1973*
<i>Miopithecus talapoin ansorgei</i> , Angolan talapoin	27 yr	8 mo	1967
<i>Erythrocebus patas</i> , Patas monkey	cb 21 yr	7 mo	1976
<i>Presbytis entellus</i> , Hanuman langur	25 yr	0 mo	1967*
<i>Presbytis cristatus sondaicus</i> , West Javan Silvered Leaf monkey	cb 31 yr	1 mo	1976
<i>Presbytis pileatus</i> , Capped langur	cb 23 yr	8 mo	1967
<i>Pygathrix nemausus</i> , Douc langur	10 yr	3 mo	1978*
<i>Nasalis larvatus</i> , Proboscis monkey	13 yr	6 mo	1975
<i>Colobus guereza kikuyuensis</i> , Kikuyu colobus	cb 23 yr	9 mo	1974
<i>Pongidae</i>			
<i>Hylobates pileatus</i> , Black-capped gibbon	34 yr	0 mo	1965
<i>Hylobates pileatus x agilis</i> , Hybrid gibbon	cb 33 yr	11 mo	1978*
<i>Pongo pygmaeus abelii</i> , Sumatran orang utan	49 yr	0 mo	1977
	(59 yr	0 mo) +	
<i>Chimpanzee troglodytes</i> , Common chimpanzee	48 yr	0 mo	1976*
	(53 yr	0 mo)	
	47 yr	2 mo	1978*
	(48 yr	2 mo)	
<i>Chimpanzee paniscus</i> , Pygmy chimpanzee	18 yr	10 mo	1978*
	(26 yr	10 mo)	
<i>Gorilla gorilla gorilla</i> , Lowland gorilla	47 yr	0 mo	1978*
	(47 yr	3 mo)	
EDENTATA			
<i>Myrmecophagidae</i>			
<i>Myrmecophaga tridactyla</i> , Giant anteater	25 yr	10 mo	1972
	21 yr	1 mo	1976
<i>Bradypodidae</i>			
<i>Choloepus didactylus</i> , Two-toed sloth	27 yr	9 mo	1977*
<i>Choloepus hoffmanni</i> , Hoffmann's sloth	31 yr	4 mo	1978*
<i>Dasypodidae</i>			

<i>Chaetophractus villosus</i> , Hairy armadillo	18 yr	10 mo	1934
<i>Euphractus sexcinctus</i> , Six-banded armadillo	18 yr	10 mo	1976
<i>PHOLIDOTA</i>			
<i>Manidae</i> <i>Manis crassicaudata</i> , Indian pangolin	12 yr	8 mo	1978*
<i>LAGOMORPHA</i>			
<i>Ochotonidae</i>			
<i>Ochotona pusilla nubrica</i> , Steppe pika	3 yr	1 mo	1971
<i>Leporidae</i>			
<i>Lepus timidus</i> , Mountain or Snow hare	7 yr	3 mo	1903
<i>RODENTIA</i>			
<i>Aplodontiidae</i>			
<i>Aplodontia rufa</i> , sewellel	3 yr	2 mo	1978*
<i>Sciuridae</i>			
<i>Sciurus carolinensis</i> , Gray squirrel	23 yr	6 mo	1973
<i>Ratufa indica</i> , Indian Giant squirrel	19 yr	6 mo	1978*
<i>Geomyidae</i>			
<i>Geomys bursarius</i> , Plains Pocket gopher	7 yr	2 mo	1906
<i>Heteromyidae</i>			
<i>Perognathus longimembris gulosus</i> , Little Pocket mouse	7 yr	10 mo	(2)
<i>Dipodomys ordi richardsoni</i> , Richardson's Kangaroo rat	9 yr	10 mo	1928
<i>Castoridae</i>			
<i>Castor canadensis</i> , American beaver	15 yr	10 mo	1899
<i>Pedetidae</i>			
<i>Pedetes capensis</i> , Cape Jumping hare or springhaas	13 yr	10 mo	1977
<i>Cricetidae</i>			
<i>Peromyscus crinitus pergracilis</i> , Canyon mouse	7 yr	8 mo	(2)
<i>Neotoma albigula</i> , White-throated Wood rat	7 yr	8 mo	1966
<i>Lophiomyys imhausi ibeanus</i> , East African Maned rat	7 yr	6 mo	1967
<i>Gerbillus pyramidum</i> , Greater Egyptian gerbil	8 yr	2 mo	1944*
<i>Tatera indica</i> , Indian gerbil	7 yr	0 mo	1969
<i>Spalacidae</i>			
<i>Spalax microphthalmus</i> , Russian Mole rat	2 yr	0 mo	1932
<i>Rhizomyidae</i>			
<i>Rhizomys sumatrensis</i> , Sumatran Bamboo rat	3 yr	6 mo	1941
<i>Muridae</i>			
<i>Arvicanthus niloticus</i> , Nile kusu	6 yr	8 mo	1901
<i>Cricetomys gambianus</i> , West African Pouched rat	7 yr	8 mo	1934
<i>Phloeomys cumingi</i> , Slender-tailed Cloud rat	cb 13 yr	7 mo	1967
<i>Myoxidae</i>			
<i>Myoxus glis</i> , Common or Fat dormouse	8 yr	8 mo	1940*

<i>Zapodidae</i>			
<i>Zapus hudsonius</i> , American Jumping mouse	5 yr	0 mo	1916*
<i>Dipodidae</i>			
<i>Jaculus jaculus</i> , Lesser Egyptian jerboa	6 yr	1 mo	1943
<i>Hystriidae</i>			
<i>Hystrix brachyurum longicauda</i> , Sumatran porcupine	27 yr	3 mo	1965
<i>Hystrix cristata</i> , Crested porcupine	24 yr	7 mo	1976
<i>Erethizontidae</i>			
<i>Coendu prehensilis</i> , Brazilian Tree porcupine	8 yr	10 mo	1917
<i>Caviidae</i>			
<i>Dolichotis patagona</i> , Patagonian cavy or mara	10 yr	11 mo	1918
<i>Hydrochoeridae</i>			
<i>Hydrochoerus hydrochoeris</i> , capybara	11 yr	11 mo	1924
<i>Dinomyidae</i>			
<i>Dinomys branicki</i> , pacarana	9 yr	5 mo	1956
<i>Dasyproctidae</i>			
<i>Dasyprocta aguti</i> , Golden-rumped agouti	17 yr	9 mo	1929
<i>Chinchillidae</i>			
<i>Lagidium peruanum</i> , Mountain chinchilla	19 yr	6 mo	1966
<i>Capromyidae</i>			
<i>Capromys pilorides</i> , Cuban hutia	11 yr	4 mo	1917*
<i>Octodontidae</i>			
<i>Octodon degus</i> , degu	7 yr	1 mo	1978*
<i>Ctenomyidae</i>			
<i>Ctenomys talarum</i> , La Plata tuco tuco	2 yr	2 mo	1970
<i>Abrocomidae</i>			
<i>Abrocoma bennetti</i> , Bennett's Rat chinchilla	2 yr	4 mo	1951
<i>Echimyidae</i>			
<i>Proechimys semispinosus</i> , Spiny rat	4 yr	10 mo	1975
<i>Thryonomyidae</i>			
<i>Thryonomys swinderianus</i> , Cane rat	3 yr	7 mo	1915*
<i>Bathygeridae</i>			
<i>Heliophobius albifrons</i> , African Mole rat	3 yr	0 mo	1927
<i>CETACEA</i>			
<i>Platanistidae</i>			
<i>Inia geoffrensis</i> , Amazon Freshwater dolphin	9 yr	1 mo	1971
<i>Monodontidae</i>			
<i>Delphinapterus leucus</i> , Beluga or White whale	14 yr	8 mo	1976*
<i>Delphinidae</i>			
<i>Globicephala melaena</i> , Pilot whale	11 yr	0 mo	1970*

<i>Grampus griseus</i> , Risso's dolphin	13 yr	0 mo	1971*
<i>Orcinus orca</i> , Killer whale	11 yr	0 mo	1978*
<i>Tursiops truncatus</i> , Atlantic Bottle-nosed dolphin	cb 25 yr	0 mo	1978*
CARNIVORA			
<i>Canidae</i>			
<i>Canis latrans</i> , coyote	21 yr	10 mo	1904
<i>Canis lupus nubilus</i> , Timber wolf	19 yr	0 mo	1948
<i>Alopex lagopus</i> , Arctic fox	15 yr	0 mo	1964
<i>Vulpes macrotis</i> , Kit fox	20 yr	0 mo	1973*
<i>Ursidae</i>			
<i>Selenarctos thibetanus</i> , Himalayan Black bear	34 yr	2 mo	1978*
<i>Ursus arctos</i> , European Brown bear	37 yr	0 mo	1962
<i>Ursus arctos horribilis</i> , Grizzly bear	35 yr	11 mo	1942
<i>Ursus arctos gyas</i> , Alaskan Peninsula bear	36 yr	10 mo	1958
<i>Ursus arctos x Selenarctos thibetanus</i> , Hybrid bear	cb 36 yr	6 mo	1955
<i>Thalarcos maritimus</i> , Polar bear	cb 34 yr	7 mo	1947
<i>Thalarcos maritimus x Ursus arctos middendorffi</i> Hybrid bear	cb 38 yr	1 mo	1974
<i>Ailuropoda melanoleuca</i> , Giant panda	26 yr	0 mo	1978*
<i>Procyonidae</i>			
<i>Procyon lotor</i> , raccoon	22 yr	5 mo	1973
<i>Potos flavus</i> , kinkajou	23 yr	2 mo	1975*
<i>Ailurus fulgens</i> , Lesser panda	13 yr	5 mo	1965
<i>Mustelidae</i>			
<i>Martes americana</i> , American marten	17 yr	9 mo	1973
<i>Eira barbara</i> , tayra	17 yr	5 mo	1930
<i>Gulo gulo luscus</i> , American wolverine	17 yr	4 mo	1946
<i>Mellivora capensis</i> , Cape ratel	26 yr	0 mo	1977
<i>Taxidea taxus</i> , American badger	23 yr	8 mo	1946*
<i>Lutra canadensis vaga</i> , Florida otter	20 yr	4 mo	1921
<i>Viverridae</i>			
<i>Genetta genetta</i> , Common genet	21 yr	4 mo	1978*
<i>Genetta maculata</i> , West African genet	18 yr	0 mo	1955
<i>Civettictis civetta</i> , African civet	28 yr	0 mo	1968
<i>Arctictis binturong</i> , binturong	22 yr	8 mo	1976*
<i>Suricata suricatta</i> , suricate or meerkat	14 yr	1 mo	1972*
<i>Atilax paludinosus</i> , Water mongoose	16 yr	7 mo	1978*
<i>Cynictis penicillata</i> , Yellow mongoose	15 yr	2 mo	1968
<i>Cryptoprocta ferox</i> , fossa	17 yr	0 mo	1926
<i>Hyaenidae</i>			
<i>Proteles cristata</i> , aardwolf	13 yr	6 mo	1978*
<i>Crocuta crocuta</i> , Spotted hyena	36 yr	0 mo	1973*
<i>Felidae</i>			
<i>Lynx lynx canadensis</i> , Canadian lynx	24 yr	0 mo	1978*
<i>Lynx rufus</i> , bobcat	32 yr	4 mo	1974
<i>Felis silvestris ocreata</i> , Abyssinian Wild cat	14 yr	7 mo	1907
<i>Felis manul</i> , Pallas cat	11 yr	6 mo	1970

<i>Felis serval</i> , serval	19 yr	3 mo	1967
<i>Felis temmincki</i> , Asian Golden cat	17 yr	8 mo	1945
<i>Felis pardalis</i> , ocelot	20 yr	3 mo	1972
<i>Felis geoffroyi</i> , Geoffroy's cat	16 yr	2 mo	1968
<i>Felis concolor</i> , puma	19 yr	6 mo	1947
<i>Felis concolor hippolestes</i> , Rocky Mountain puma	19 yr	0 mo	1923
<i>Leo pardus</i> , leopard	23 yr	7 mo	1973
<i>Leo onca</i> , jaguar	20 yr	10 mo	1978
<i>Leo tigris tigris</i> , Bengal tiger	cb 26 yr	3 mo	1958
<i>Leo leo</i> , African lion	cb 25 yr	0 mo	1914
<i>Neofelis nebulosa</i> , Clouded leopard	16 yr	3 mo	1970
<i>Uncia uncia</i> , Snow leopard	15 yr	4 mo	1944
<i>Acinonyx jubatus</i> , cheetah	15 yr	9 mo	1972*

#### PINNIPEDIA

<i>Otariidae</i>			
<i>Otaria byronia</i> , South American Sea lion	22 yr	10 mo	1973
<i>Zalophus californianus</i> , California Sea lion	28 yr	0 mo	1956
<i>Arctocephalus pusillus</i> , South African Fur seal	21 yr	0 mo	1974
<i>Odobenidae</i>			
<i>Odobenus rosmarus</i> , walrus	17 yr	0 mo	1977*
<i>Phocidae</i>			
<i>Phoca vitulina vitulina</i> , European Harbour seal	21 yr	9 mo	1915*
	21 yr	7 mo	1976
<i>Phoca vitulina richardi</i> , Pacific Harbour seal	34 yr	0 mo	1972
<i>Halichoerus grypus</i> , Gray seal	41 yr	0 mo	1942
	25 yr	9 mo	1978*
<i>Mirounga leonina</i> , Southern Elephant seal	15 yr	0 mo	1940

#### TUBLIDENATA

<i>Orycteropodidae</i>			
<i>Orycteropus afer</i> , aardvark	22 yr	0 mo	1978*
	19 yr	4 mo	1969

#### PROBOSCIDEA

<i>Elephantidae</i>			
<i>Elephas maximus</i> , Asian elephant	57 yr	0 mo	1939
	(69 yr	0 mo)	
	53 yr	0 mo	1978*
	(62 yr	0 mo)	
<i>Loxodonta africana</i> , African elephant	48 yr	0 mo	1924
	40 yr	11 mo	1967

#### HYRACOIDEA

<i>Procaviidae</i>			
<i>Dendrohyrax arboreus</i> , Tree hyrax	5 yr	7 mo	1973*
<i>Heterohyrax syriacus</i> , Syrian hyrax	8 yr	10 mo	1962
<i>Procavia capensis</i> , Cape hyrax	7 yr	9 mo	1973*

#### SIRENIA

*Dugongidae*

<i>Dugong dugon</i> , dugong	8 yr	0 mo	1968*
<i>Trichechidae</i>			
<i>Trichechus senegalensis</i> , West African manatee	15 yr	4 mo	1970
<i>Trichechus inunguis</i> , Amazonian manatee	13 yr	0 mo	1925
<i>PERISSODACTYLA</i>			
<i>Equidae</i>			
<i>Equus przewalski</i> , Mongolian Wild horse	cb 32 yr	10 mo	1959
<i>Equus hemionus hemippus</i> , Syrian Wild ass	35 yr	10 mo	1892
<i>Equus hemionus onager</i> , Persian Wild ass	28 yr	11 mo	1956
<i>Equus quagga</i> , quagga	27 yr	0 mo	1878
<i>Equus burchelli burchelli</i> , Burchell's zebra	31 yr	6 mo	1903
<i>Equus burchelli chapmani</i> , Chapman's zebra	28 yr	1 mo	1919
<i>Equus grevyi</i> , Grevy's zebra	28 yr	9 mo	1975
<i>Equus zebra zebra</i> , Cape Mountain zebra	26 yr	3 mo	1919
<i>Tapiridae</i>			
<i>Tapirus terrestris</i> , South American tapir	30 yr	5 mo	1914
	29 yr	10 mo	1969
<i>Tapirus indicus</i> , Malayan tapir	29 yr	4 mo	1958
<i>Rhinocerotidae</i>			
<i>Rhinoceros unicornis</i> , Great Indian rhinoceros	40 yr	4 mo	1904
<i>Dicerorhinus sumatrensis</i> , Sumatran rhinoceros	32 yr	8 mo	1900
<i>Diceros bicornis</i> , African Hook-lipped rhinoceros	43 yr	4 mo	1978*
<i>Ceratotherium simum simum</i> , Southern White rhinoceros	31 yr	0 mo	1977*
<i>Ceratotherium s. cottoni</i> , Northern White rhinoceros	28 yr	5 mo	1978*
	(30 yr)	3 mo)	
<i>ARTIODACTYLA</i>			
<i>Suidae</i>			
<i>Potamochoerus porcus koiropotamus</i> , Southern Bush pig	22 yr	9 mo	1972*
<i>Sus scrofa</i> , European Wild hog	21 yr	0 mo	1949
<i>Sus scrofa leucomystax</i> , Japanese Wild hog	20 yr	11 yr	1967
<i>Phacochoerus aethiopicus</i> , Wart hog	18 yr	9 mo	1958
<i>Babyrousa babirussa alfurus</i> , Celebes babirussa	21 yr	5 mo	1920
<i>Tayassuidae</i>			
<i>Tayassu tajacu</i> , Collared peccary	24 yr	7 mo	1934
<i>Hippopotamidae</i>			
<i>Hippopotamus amphibius</i> , River hippopotamus	cb 55 yr	2 mo	1978*
	51 yr	0 mo	1954
<i>Choeropsis liberiensis</i> , Pygmy hippopotamus	38 yr	0 mo	1978*
	(43 yr	0 mo) +	
	42 yr	0 mo	1952
<i>Camelidae</i>			
<i>Camelus ferus forma bactriana</i> , Bactrian camel	35 yr	5 mo	1968*
<i>Lama guanicoe</i> , guanaco	cb 28 yr	4 mo	1971
<i>Vicugna vicugna</i> , vicuna	24 yr	9 mo	1969
<i>Tragulidae</i>			

<i>Tragulus napu</i> , Greater Malay chevrotain	cb 13 yr	4 mo	1978*
	13 yr	0 mo	1974
<i>Cervidae</i>			
<i>Moschus moschiferus</i> , Musk deer	13 yr	11 mo	1974
<i>Muntiacus muntjak ssp.</i> , Indian muntjac	cb 16 yr	10 mo	1978*
<i>Muntiacus reevesi</i> , Chinese muntjac	cb 16 yr	4 mo	1953*
<i>Dama dama</i> , Fallow deer	25 yr	0 mo	(1)
<i>Cervus elaphus</i> , Red deer	26 yr	6 mo	1941
<i>Cervus elaphus scoticus</i> , Scottish Red deer	26 yr	8 mo	1954
<i>Cervus unicolor malaccensis</i> , Malayan Sambar deer	26 yr	5 mo	1955
<i>Cervus nippon ssp.</i> , Japanese Sika deer	cb 25 yr	5 mo	1936
<i>Elaphurus davidianus</i> , Pere David deer	cb 19 yr	5 mo	1970
<i>Odocoileus virginianus osceola</i> , Florida White-tailed deer	cb 18 yr	6 mo	1921
<i>Mazama americana</i> , Red brocket	13 yr	10 mo	1970
<i>Alces alces alces</i> , European moose	17 yr	11 mo	1968
<i>Alces alces americana</i> , American moose	17 yr	2 mo	1938
<i>Rangifer tarandus</i> , reindeer	cb 20 yr	2 mo	1918
<i>Hydropotes inermis inermis</i> , Chinese Water deer	cb 11 yr	0 mo	1959
	cb 10 yr	8 mo	1978*
<i>Giraffidae</i>			
<i>Giraffa camelopardalis</i> , giraffe	cb 36 yr	2 mo	1973
	cb 28 yr	0 mo	1906
<i>Giraffa c. rothschildi</i> , Baringo giraffe	29 yr	9 mo	1976
<i>Okapia johnstoni</i> , okapi	28 yr	7 mo	1976
	(33 yr	0 mo)	
<i>Antilocapridae</i>			
<i>Antilocapra americana</i> , pronghorn	11 yr	10 mo	1963
<i>Bovidae</i>			
<i>Tragelaphus strepsiceros chora</i> , Sudan Greater kudu	20 yr	9 mo	1957
<i>Tragelaphus spekei x gratus</i> , Hybrid sitatunga	cb 19 yr	1 mo	1958
<i>Boocercus eurycerus isaaci</i> , East African bongo	17 yr	9 mo	1950
<i>Boselaphus tragocamelus</i> , nilgai	cb 21 yr	8 mo	1939
<i>Bubalus arnee forma bubalis</i> , Water buffalo	28 yr	3 mo	1915
<i>Anoa depressicornis</i> , anoa	25 yr	8 mo	1953
<i>Bos gaurus</i> , gaur	26 yr	2 mo	1930
<i>Syncerus caffer</i> , Cape buffalo	cb 29 yr	6 mo	1974
<i>Bison bison bison</i> , Plains bison	26 yr	0 mo	1932
<i>Bison bison bonasus</i> , Wisent or European bison	cb 26 yr	0 mo	1932
<i>Cephalophus nigrifrons</i> , Black-fronted duiker	19 yr	8 mo	1960
<i>Cephalophus dorsalis castaneus</i> , Chestnut duiker	17 yr	1 mo	1969
<i>Kobus ellipsyprymnus defassa</i> , Defassa waterbuck	18 yr	5 mo	1957
<i>Kobus e. ellipsyprymnus x e. defassa</i> , Hybrid waterbuck	cb 18 yr	8 mo	1953
<i>Redunca arundinum</i> , Greater reedbuck	16 yr	9 mo	1956
<i>Hippotragus niger</i> , Sable antelope	19 yr	9 mo	1960
<i>Oryx gazella beisa</i> , Beisa oryx	cb 18 yr	6 mo	1976*
<i>Oryx gazella dammah</i> , Scimitar-horned oryx	18 yr	1 mo	1955
<i>Addax nasomaculatus</i> , addax	25 yr	4 mo	1960

<i>Damaliscus dorcas phillipsi</i> , blesbok	21 yr	5 mo	1942
<i>Alcelaphus buselaphus buselaphus</i> , Bubal hartebeest	18 yr	11mo	1916
<i>Connochaetes taurinus albojubatus</i> , Eastern White-bearded gnu	21 yr	5 mo	1955
<i>Oreotragus oreotragus saltatrixoides</i> , Abyssinian klipspringer	12 yr	1 mo	1966
<i>Neotragus pygmaeus</i> , Royal antelope	6 yr	8 mo	1968
<i>Madoqua kirki hindei</i> , Kirk's dik dik	10 yr	5 mo	1973*
<i>Antilope cervicapra</i> , blackbuck	16 yr	9 mo	1946
<i>Gazella dorcas</i> , Dorcas gazelle	17 yr	1 mo	1977
<i>Antidorcas marsupialis</i> , springbok	19 yr	0 mo	1947
<i>Saiga tatarica</i> , saiga	8 yr	0 mo	1970
<i>Naemorhedus goral</i> , Gray goral	17 yr	7 mo	1898
<i>Oreamnos americanus</i> , Rocky Mountain goat	13 yr	8 mo	1924
<i>Rupicapra rupicapra</i> , chamois	16 yr	10 mo	1907
<i>Budorcas taxicolor taxicolor</i> , Burmese takin	15 yr	10 mo	1975
	12 yr	8 mo	1978*
<i>Ovibos moschatus wardi</i> , Greenland musk-ox	14 yr	9 mo	1939
<i>Hemitragus jemlahicus</i> , Himalayan tahr	cb 21 yr	9 mo	1963
<i>Capra aegargus aegargus</i> , Persian Wild goat	20 yr	9 mo	1934
<i>Capra ibex sibirica</i> , Siberian ibex	22 yr	3 mo	1930
<i>Pseudois nayaur szechuanensis</i> , Chinese Blue sheep	20 yr	3 mo	1959
<i>Ammotragus lervia</i> , aoudad	cb 20 yr	11 mo	1933
<i>Ovis ammon musimon</i> , mouflon	19 yr	2 mo	1887
<i>Ovis ammon canadensis</i> , Rocky Mountain bighorn	15 yr	7 mo	1976

#### Sources:

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# Letters to the Editor

## Brown Eared Pheasants

Dear Sir,

Readers of your December issue will have been interested to learn that the Norfolk Wildlife Park has raised Brown Eared pheasants from stock imported from China in 1976, but I believe the claim that these birds are the first of the species to reach the West since 1866 to be erroneous.

I understand that some 25 or 30 years ago a new importation of this species from China reached either the East Berlin or the Prague Zoo; that a pair of birds bred of new stock in eastern Europe was certainly acquired in the middle 1950s by Dr. Gunter Voss, then curator of the Assiniboine Park Zoo in Winnipeg, Canada; and that descendants of these birds reached at least one other Canadian breeder, Mr. J. Schuiteman of Devlin, Ontario, and very possibly more.

These facts seem worth reporting, not only to contribute to putting the record straight, but also to help American breeders in search of outcrosses. They would be wise to apply first either to Winnipeg or to Devlin to see if they can get new blood from one of these places at a price which would be far less than the costs of importing and quarantining birds from Europe.

Finally, any information that any of your readers can provide on Brown Eared pheasants descended from stocks imported from China to countries behind the Iron Curtain would be most welcome to conservationists everywhere.

Yours faithfully,

*Richard Glover,*  
71 Forest Hill Ave.,  
Ottawa, Canada.

## A final word from Mephistopheles

Dear Sir,

Mr. Hancocks' second reply to me in your December 1978 issue has lately reached me and prompts me to write you once more, but not for the purpose of continuing an argument of which your other readers are likely to have had quite enough by now.

Instead I would like to assure Mr. Hancocks first, that nothing he has written has caused me any 'anguish' at all, and second, that he is dead right in believing that I have 'a sincere desire to improve' (as far as an individual can) 'the standards of zoo design'.

Next, may I express my appreciation of the trouble taken by Mr. Jack Jones of Zoo Plan Associates, Inc. and Mr. Robert E. Everly of McFadzean, Everly and Associates to