

Zoological Society of San Diego

Longevity of Captive Mammals

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A listing similar to the one below was presented as part of the International Conference on the Pathology of Zoo Animals held at the National Zoological Park in Washington, D. C., in the fall of 1978, and at the January, 1979, Gordon Conference on the Biology of Ageing at Santa Barbara, California. Both of these listings were primarily of families of mammals, except for certain orders such as Primates. For the summer 1979 meeting of the American Society of Mammalogists at Corvallis, Washington the list was expanded to include each genus (as shown in the 3d edition of WALKER's "Mammals of the World") for which the author had a captive longevity record. This list was shown in the poster session only, it has not been formally published, and is being reproduced at this time to accompany reprints from the book that has now been published by the Smithsonian on the Washington conference. The information in this list is thus the most complete and may in some cases change preliminary data as shown in the reprints. 16 December 1980, San Diego.

One of the purposes in preparing this list, is to solicit additional or better records, so please contact the author if you have such information. Please include exact date of arrival/birth and death. ~~Records based on animals that have lived at the San Diego Zoo are underlined.~~

Taxon	Age and date of record	
Order <i>Monotremata</i>		
Family <i>Tachyglossidae</i>		
<i>Tachyglossus aculeatus</i> , Australian echidna	49 yr.,	5 mo., 1953
<i>Zaglossus b. nigroaculeata</i> , New Guinea echidna	30 yr.,	8 mo., 1943
Family <i>Ornithorhynchidae</i>		
<i>Ornithorhynchus anatinus</i> , platypus	17 yr.,	0 mo., 1956
Order <i>Marsupialia</i>		
Family <i>Didelphidae</i>		
<i>Caluromys philander</i> , woolly opossum	6 yr.,	4 mo., 1935
<i>Caluromyslops irrupta</i> , black-shouldered opossum	7 yr.,	7 mo., 1975
<i>Monodelphis brevicaudata</i> , short bare-tailed opossum	3 yr.,	7 mo., 1977
<i>Marmosa n. polita</i> , Rio Napo mouse opossum	4 yr.,	6 mo., 1963
<i>Philander opossum</i> , grey four-eyed opossum	2 yr.,	10 mo., 1969
<i>Metachirus n. dentaneus</i> , Panama bare-tailed opossum	1 yr.,	8 mo., 1949
<i>Lutreolina crassicaudata</i> , little water opossum	2 yr.,	10 mo., 1968
<i>Didelphis m. virginiana</i> , northern opossum	4 yr.,	10 mo., 1897
<i>Chironectes panamensis</i> , water opossum	2 yr.,	11 mo., 1952
Family <i>Dasyuridae</i>		
<i>Phascogale tapoatafa</i> , greater phascogale	0 yr.,	–1 mo., 1905
<i>Antechinus stuarti</i> , Stuart's antechinus	2 yr.,	9 mo., 1969
<i>Planigale ingrami</i> , Ingram's planigale	0 yr.,	+1 mo., 1973
<i>Dasyuroides byrnei</i> , kowari	6 yr.,	4 mo., 1973

<i>Dasygeercus cristicauda</i> , mulgara	5 yr., 7 mo., 1972
<i>Sminthopsis macrura</i> , Darling Downs dunnart	4 yr., 11 mo., 1974
<i>Antechinus spenceri</i> , Spencer's marsupial jerboa	3 yr., 6 mo., 1972
<i>Dasyurus viverrinus</i> , eastern native cat	6 yr., 10 mo., 1884
<i>Dasyurus geoffroyi</i> , western native cat	1 yr., 7 mo., 1969* ¹
<i>Satanellus h. albopunctatus</i> , New Guinea native cat	4 yr., 7 mo., 1976
<i>Dasyurops maculatus</i> , large spotted native cat	3 yr., 11 mo., 1940
<i>Sarcophilus harrisi</i> , Tasmanian devil	8 yr., 2 mo., 1850
<i>Thylacinus cynocephalus</i> , Tasmanian "wolf", thylacine	7 yr., 1 mo., 1909
Family <i>Myrmecobiidae</i>	
<i>Myrmecobius fasciatus</i> , numbat	5 yr., 3 mo., 1974
Family <i>Peramelidae</i>	
<i>Perameles nasuta</i> , greater long-nosed bandicoot	1 yr., 7 mo., 1963
<i>Echymipera rufescens</i> , rufous spiny bandicoot	2 yr., 9 mo., 1977
<i>Thylacomys lagotis</i> , rabbit-eared bandicoot	7 yr., 2 mo., ? ²
<i>Isodon macrourus</i> , bridled short-nosed bandicoot	2 yr., 3 mo., 1969
<i>Peroryctes raffrayanus</i> , New Guinea bandicoot	3 yr., 3 mo., 1973
Family <i>Phalangeridae</i>	
<i>Phalanger gymnotis</i> , scaly-tailed cuscus	9 yr., 1 mo., 1979*
<i>Trichosurus vulpecula</i> , grey brush-tailed possum	14 yr., 8 mo., 1904
<i>Acrobates pygmaeus</i> , pigmy gliding possum	7 yr., 2 mo., 1892
<i>Burrumys parvus</i> , mountain pigmy possum	2 yr., 0 mo., 1974*
<i>Distoechurus pennatus</i> , pen-tailed possum	1 yr., 6 mo., 1932
<i>Cercaerus nanus</i> , dormouse possum	4 yr., 7 mo., 1905
<i>Eudromicia caudata</i> , New Guinea dormouse possum	0 yr., +1 mo., 1966
<i>Petaurus breviceps</i> , lesser gliding possum	14 yr., 0 mo., 1945
<i>Dactylopsila t. melampus</i> , New Guinea striped possum	4 yr., 11 mo., 1970
<i>Wyulda squamicaudata</i> , scaly-tailed possum	0 yr., +1 mo., 1978*
<i>Tarsipes spencerae</i> , honey possum	0 yr., +1 mo., 1977
<i>Phascogalea c. cinereus</i> , New South Wales koala	17 yr., 0 mo., 1978
<i>Pseudocheirus peregrinus</i> , ring-tailed possum	5 yr., 8 mo., 1928
<i>Hemibelideus lemuroides</i> , brush-tipped possum	3 yr., 4 mo., 1865
<i>Scolobates volans</i> , giant gliding possum	5 yr., 8 mo., 1904
Family <i>Phascogaleidae</i>	
<i>Vombatus ursinus</i> , coarse-haired wombat	26 yr., 0 mo., 1906
<i>Lasiornis latifrons</i> , hairy-nosed wombat	24 yr., 6 mo., 1925
Family <i>Macropodidae</i>	
<i>Lagorchestes leporides</i> , long-eared hare wallaby	1 yr., 0 mo., 1940
<i>Lagostrophus fasciatus</i> , banded hare wallaby	4 yr., 2 mo., 1970
<i>Petrogale penicillata</i> , brush-tailed rock wallaby	14 yr., 4 mo., 1894
<i>Wallabia r. fruticosa</i> , Bennett's wallaby	15 yr., 2 mo., 1966
<i>Onychogalea fraenata</i> , bridled nail-tailed wallaby	7 yr., 4 mo., 1919
<i>Thylogale eugenii</i> , dama wallaby	12 yr., 5 mo., 1975*
<i>Peradarcas concinna</i> , little rock wallaby	0 yr., 6 mo., 1912
<i>Macropus r. rubescens</i> , euro wallaroo	19 yr., 7 mo., 1960
<i>Setonix brachyurus</i> , quokka	8 yr., 0 mo., 1889
<i>Dendrolagus matschiei</i> , Matschie's tree kangaroo	15 yr., 7 mo., 1975
<i>Dorcopsis m. luctuosa</i> , grey dorcopsis	7 yr., 7 mo., 1973
<i>Bettongia cuniculus</i> , Tasmanian rat kangaroo	11 yr., 10 mo., 1965*
<i>Aepyprymnus rufescens</i> , rufous rat kangaroo	8 yr., 1 mo., 1882

¹ An asterisk after the year indicates that the record setting specimen was still alive at that time in some zoological collections. The specimen may still be alive as of 1980, or it died and the date of death is unknown.

² at Frankfurt Zoo before 1880

<i>Caloprymnus campestris</i> , desert rat kangaroo	13 yr.,	0 mo., 1866
<i>Potorous tridactylus</i> , dark rat kangaroo	9 yr.,	1 mo., 1901
<i>Hypsiprymnodon moschatus</i> , musky rat kangaroo	4 yr.,	0 mo., 1862
Order <i>Insectivora</i>		
Family <i>Solenodontidae</i>		
<i>Solenodon paradoxus</i> , Hispaniolan solenodon	8 yr.,	11 mo., 1976
	est 12 yr.,	0 mo.,
Family <i>Tenrecidae</i>		
<i>Tenrec ecaudatus</i> , common tenrec	6 yr.,	4 mo., 1977
<i>Setiger setosus</i> , hedgehog tenrec	10 yr.,	6 mo., 1971
<i>Hemicentetes nigriceps</i> , hairy striped tenrec	2 yr.,	3 mo., 1968
<i>Echinops telfairi</i> , small Madagascan tenrec	13 yr.,	0 mo., 1979*
<i>Microgale talazaci</i> , long-tailed tenrec	5 yr.,	4 mo., 1972
Family <i>Erinaceidae</i>		
<i>Echinosorex gymnurus</i> , moonrat	4 yr.,	6 mo., 1970
<i>Hylomys s. dorsalis</i> , Bornean spineless hedgehog	0 yr.,	+ 1 mo., 1951
<i>Erinaceus eu. roumanicus</i> , Rumanian hedgehog	7 yr.,	0 mo., 1976
<i>Hemiechinus megalotis</i> , long-eared hedgehog	6 yr.,	9 mo., ³
<i>Paraechinus a. dorsalis</i> , desert hedgehog	4 yr.,	6 mo., 1971
Family <i>Macroscelididae</i>		
<i>Macroscelides proboscideus</i> , short-eared elephant shrew	5 yr.,	8 mo., 1979*
<i>Nasilio brachyrhynchus</i> , short-nosed elephant shrew	4 yr.,	2 mo., 1974
<i>Elephantulus i. alexandri</i> , Damara elephant shrew	8 yr.,	9 mo., 1967
<i>Petrodromus tetradactylus</i> , Tanzanian forest elephant shrew	1 yr.,	6 mo., 1967
<i>Rhynchocyon chrysopygus</i> , yellow-backed elephant shrew	0 yr.,	1 mo., ⁴
Family <i>Soricidae</i>		
<i>Sorex araneus</i> , European shrew	0 yr.,	3 mo., 1967
<i>Neomys fodiens</i> , European water shrew	0 yr.,	6 mo., 1914
<i>Blarina b. kirtlandi</i> , short-tailed shrew	2 yr.,	3 mo., 1960
<i>Cryptotis parva</i> , lesser shot-tailed shrew	0 yr.,	- 1 mo., 1958
<i>Crocilura russula</i> , European white-tooted shrew	1 yr.,	6 mo., 1979*
<i>Suncus etruscus</i> , Etruscan shrew	2 yr.,	0 mo., 1972*
Family <i>Talpidae</i>		
<i>Talpa europaea</i> , European mole	0 yr.,	- 1 mo., 1917
<i>Scapanus l. oculatus</i> , broad-footed mole	0 yr.,	- 1 mo., 1969
<i>Scalopus aquaticus</i> , American mole	1 yr.,	11 mo., 1965
<i>Condylura cristata</i> , star-nosed mole	0 yr.,	- 1 mo., 1948
Order <i>Dermoptera</i>		
Family <i>Cynocephalidae</i>		
<i>Cynocephalus variegatus</i> , colugo	0 yr.,	- 1 mo., 1971
Order <i>Chiroptera</i>		
Family <i>Pteropodidae</i>		
<i>Cynopterus brachyotis</i> , Malay short-eared fruit bat	6 yr.,	2 mo., 1971
<i>Rousettus leachi</i> , collared fruit bat	22 yr.,	11 mo., 1918
<i>Pteropus giganteus</i> , Indian fruit bat	31 yr.,	5 mo., 1979
<i>Dobsonia magna</i> , bare-backed fruit bat	3 yr.,	11 mo., 1929
<i>Epomophorus gambianus</i> , West African fruit bat	4 yr.,	0 mo., 1974
<i>Micropterus pusillus</i> , small epauletted fruit bat	4 yr.,	7 mo., 1971
<i>Epomops franqueti</i> , Franquet's epauletted fruit bat	2 yr.,	11 mo., 1970

³ WALTER PODUSCHKA, Vienna, personal communication 28. V. 1979⁴ JOHN EISENBERG, Washington, personal communication VI. 1979

<i>Myotis myotis</i> , common fruit bat	5 yr., 10 mo., 1979*
<i>Eidolon helvum</i> , straw-colored fruit bat	21 yr., 10 mo., 1968
Family <i>Rhinopomatidae</i>	
<i>Rhinopoma microphyllum</i> , larger mouse-tailed bat	0 yr., 1 mo., 1914
Family <i>Emballonuridae</i>	
<i>Taphozous nudiventris</i> , naked-bellied tomb bat	0 yr., -1 mo., 1873
Family <i>Noctilionidae</i>	
<i>Noctilio l. rufipes</i> , fisherman bat	11 yr., 6 mo., 1979
Family <i>Nycteridae</i>	
<i>Nycteris thebaica</i> , Egyptian slit-faced bat	0 yr., +1 mo., 1904
Family <i>Megadermatidae</i>	
<i>Macroderma gigas</i> , ghost bat	1 yr., 2 mo., 1978*
Family <i>Rhinolophidae</i>	
<i>Rhinolophus ferrumequinum</i> , greater horseshoe bat	0 yr., -1 mo., 1937
Family <i>Phyllostomatidae</i>	
<i>Phyllostomus h. panamensis</i> , Panama spear-nosed bat	0 yr., 11 mo., 1935
<i>Vampyrus spectrum</i> , false vampire bat	1 yr., 6 mo., 1937
<i>Glossophaga soricina</i> , lesser long-tongued bat	10 yr., 0 mo., 1979*
<i>Anoura geoffroyi</i> , tailless long-tongued bat	10 yr., 0 mo., 1979*
<i>Carollia perspicillata</i> , Seba's short-tailed bat	12 yr., 5 mo., 1979*
<i>Sturnira lilium</i> , yellow-shouldered bat	12 yr., 0 mo., 1979*
<i>Vampyrops lineatum</i> , white-lined bat	10 yr., 2 mo., 1979*
<i>Artibeus jamaicensis</i> , Jamaican fruit bat	10 yr., 0 mo., 1979*
Family <i>Desmodontidae</i>	
<i>Desmodus r. murinus</i> , Mexican vampire bat	13 yr., 2 mo., 1978*
<i>Diaemus youngi</i> , white-winged vampire bat	0 yr., -1 mo., 1965
Family <i>Vespertilionidae</i>	
<i>Myotis daubentonii</i> , water bat	0 yr., 6 mo., 1859
<i>Lasiurus noctivagus</i> , silver-haired bat	0 yr., -1 mo., 1959
<i>Pipistrellus pipistrellus</i> , common pipistrelle	0 yr., -1 mo., 1933
<i>Nyctalus noctula</i> , common noctule	0 yr., 4 mo., 1915
<i>Eptesicus fuscus</i> , big brown bat	0 yr., 11 mo., 1939
<i>Otonycteris hemprichi</i> , Hemprich's long-eared bat	0 yr., +1 mo., 1901
<i>Nycticeius humeralis</i> , evening bat	0 yr., +1 mo., 1901
<i>Chalinolobus gouldi</i> , Gould's wattled bat	0 yr., +1 mo., 1977
<i>Lasiurus borealis</i> , eastern red bat	0 yr., +1 mo., 1906
<i>Barbastella barbastella</i> , barbastelle	0 yr., +1 mo., 1928
<i>Pteropus auritus</i> , long-eared bat	0 yr., 2 mo., 1940
<i>Antrozous p. pacificus</i> , pallid bat	4 yr., 9 mo., 1972
Family <i>Molossidae</i>	
<i>Cheiromeles torquatus</i> , Malay hairless bat	0 yr., +1 mo., 1965
<i>Tadarida mexicana</i> , Mexican free-tailed bat	1 yr., 6 mo., 1971
Order <i>Primates</i>	
Family <i>Tupauidae</i>	
<i>Tupaia glis</i> , common tree shrew	12 yr., 5 mo., 1975
<i>Urogale everetti</i> , Mindanao tree shrew	11 yr., 6 mo., 1960
Family <i>Lemuridae</i>	
<i>Haplorhina griseus</i> , grey gentle lemur	12 yr., 9 mo., 1977*
<i>Lemur fulvus</i> × <i>macaco</i> , brown × black hybrid lemur	39 yr., 0 mo., 1969
<i>Lepilemur mustelinus</i> , sportive lemur	8 yr., 7 mo., 1973
<i>Cheirogaleus medius</i> , fat-tailed dwarf lemur	8 yr., 3 mo., 1978*

<i>Microcebus coquereli</i> , Coquerel's mouse lemur	15 yr., 3 mo., 1900
<i>Phaner furcifer</i> , fork-crowned lemur	1 yr., 2 mo., 1885
Family <i>Daubentonidae</i>	
<i>Daubentonia madagascariensis</i> , aye aye	23 yr., 3 mo., 1937
Family <i>Indridae</i>	
<i>Arahi laniger</i> , avahi	0 yr., +1 mo., 1955
<i>Indri indri</i> , indri	0 yr., -1 mo., 1965
<i>Propithecus v. coquereli</i> , Coquerel's sifaka	18 yr., 2 mo., 1977
Family <i>Lorissidae</i>	
<i>Loris tardigradus</i> , slender loris	12 yr., 5 mo., 1963
<i>Nycticebus coucang</i> , slow loris	13 yr., 4 mo., 1977
<i>Arctocebus calabariensis</i> , angwantibo	13 yr., 0 mo., 1978
<i>Perodicticus potto</i> , potto	22 yr., 0 mo., 1974
<i>Galago s. zanzibaricus</i> , Zanzibar lesser galago	16 yr., 6 mo., 1977*
<i>Eroticus e. pallidus</i> , Nigerian needle-clawed galago	3 yr., 4 mo., 1900
Family <i>Tarsiidae</i>	
<i>Tarsius s. carbonarius</i> , Mindanao tarsier	13 yr., 5 mo., 1977
Family <i>Cebidae</i>	
<i>Aotus trivirgatus</i> , douroucouli	18 yr., 6 mo., 1977
<i>Callicebus moloch</i> , rod titi	12 yr., 0 mo., 1938
<i>Cacajao calvus</i> , white uakari	20 yr., 6 mo., 1979*
<i>Pithecia monachus</i> , Humboldt's saki	14 yr., 11 mo., 1979*
<i>Chiropotes satanas</i> , black saki	15 yr., 0 mo., 1953
<i>Alouatta v. palliata</i> , mantled howler	10 yr., 10 mo., 1977*
<i>Cebus capucinus</i> , white-faced capuchin	46 yr., 11 mo., 1976
<i>Saimiri sciureus</i> , common squirrel monkey	15 yr., 3 mo., 1976
<i>Ateles g. pan</i> , Schlegel's spider monkey	33 yr., 0 mo., 1970
<i>Brachyteles arachnoides</i> , woolly spider monkey	8 yr., 4 mo., 1974
<i>Lagothrix lagothricha</i> , Humboldt's woolly monkey	24 yr., 9 mo., 1977
Family <i>Callithricidae</i>	
<i>Callimico goeldii</i> , Goeldi's monkey	10 yr., 11 mo., 1979*
<i>Callithrix jacchus</i> , white-eared marmoset	12 yr., 6 mo., 1979*
<i>Cebuella pygmaea</i> , pigmy marmoset	11 yr., 6 mo., 1979*
<i>Saguinus imperator</i> , emperor tamarin	17 yr., 11 mo., 1979*
<i>Leontideus rosalia</i> , golden lion tamarin	14 yr., 11 mo., 1979*
Family <i>Cercopithecidae</i>	
<i>Macaca fascicularis</i> , crab-eating macaque	37 yr., 1 mo., 1971
<i>Cercocebus albigena</i> , grey-cheeked mangabey	32 yr., 8 mo., 1962
<i>Papio sphinx</i> , mandrill	31 yr., 8 mo., 1966
<i>Theropithecus gelada</i> , gelada	20 yr., 10 mo., 1979*
<i>Cercopithecus campelli</i> , Campell's monkey	33 yr., 0 mo., 1977*
<i>Miopithecus t. ansorgei</i> , Angolan talapoin monkey	27 yr., 8 mo., 1967
<i>Allenopithecus nigroviridis</i> , Allen's swamp monkey	23 yr., 0 mo., 1976
<i>Erythrocebus patas</i> , patas monkey	21 yr., 7 mo., 1976
<i>Presbytis pileatus</i> , capped langur	23 yr., 8 mo., 1967
<i>Pygathrix n. nemaeus</i> , northern douc langur	10 yr., 11 mo., 1979* ⁵
<i>Rhinopithecus roxellanae</i> , golden snub-nosed langur	0 yr., 1 mo., 1939 ⁶
<i>Nasalis larvatus</i> , proboscis monkey	13 yr., 6 mo., 1975
<i>Colobus g. kikuyuensis</i> , Kikuyu mantled colobus	23 yr., 9 mo., 1974

⁵ ♂♂ living at Cologne Zoo, arrived 8. VI. 1968; Memphis Zoo 17. VI. 1968 and San Diego Zoo 26. VI. 1968

⁶ known to be breeding in several Chinese zoos, but no longevity data available

Family *Pongidae*

<i>Hylobates pileatus</i> × <i>agilis</i> , pileated × agile gibbon	34 yr.,	8 mo., 1979*
<i>Symphalangus syndactylus</i> , siamang	19 yr.,	11 mo., 1979*
<i>Pongo p. abeli</i> , Sumatran orang utan	49 yr.,	0 mo., 1977
	est 59 yr.,	0 mo.,
<i>Pan troglodytes</i> , chimpanzee	48 yr.,	0 mo., 1976*
	est 53 yr.,	0 mo.,
<i>Gorilla g. gorilla</i> , lowland gorilla	47 yr.,	8 mo., 1979*
	est 47 yr.,	11 mo.,

Order *Edentata*Family *Myrmecophagidae*

<i>Myrmecophaga tridactyla</i> , giant anteater	25 yr.,	10 mo., 1972
<i>Tamandua tetradactyla</i> , lesser anteater	9 yr.,	6 mo., 1973
<i>Cyclopes d. ida</i> , Ecuadorian silky anteater	2 yr.,	4 mo., 1972

Family *Bradypodidae*

<i>Bradypus tridactylus</i> , three-toed sloth	1 yr.,	9 mo., 1904
<i>Choloepus hoffmanni</i> , Hoffmann's two-toed sloth	32 yr.,	1 mo., 1979*

Family *Dasypodidae*

<i>Cabassous unicinctus</i> , one-banded naked-tailed armadillo	7 yr.,	6 mo., 1937
<i>Chaetophractus villosus</i> , hairy armadillo	18 yr.,	10 mo., 1934
<i>Priodontes giganteus</i> , giant armadillo	7 yr.,	1 mo., 1979*
<i>Euphractus sexcinctus</i> , six-banded armadillo	18 yr.,	10 mo., 1976
<i>Chlamyphorus truncatus</i> , pichiciego	4 yr.,	4 mo., 1971
<i>Burmeisteria retusa</i> , pigmy armadillo	0 yr.,	2 mo., 1956
<i>Tolypeutes matacus</i> , La Plata three-banded armadillo	12 yr.,	0 mo., 1978
<i>Zaedyus pichiy</i> , little armadillo	9 yr.,	0 mo., 1977
<i>Dasypus novemcinctus</i> , nine-banded armadillo	10 yr.,	0 mo., 1891

Order *Pholidota*Family *Manidae*

<i>Manis crassicaudata</i> , Indian pangolin	13 yr.,	6 mo., 1979*
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Order *Lagomorpha*Family *Ochotonidae*

<i>Ochotona p. nubrica</i> , steppe pika	3 yr.,	1 mo., 1971
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Family *Leporidae*

<i>Pentalagus furnessi</i> , Ryukyu rabbit	0 yr.,	+1 mo., 1970
<i>Romerolagus diazi</i> , volcano rabbit	2 yr.,	3 mo., 1909
<i>Caprolagus hispidus</i> , Assam bristly rabbit	0 yr.,	+1 mo., 1876
<i>Lepus europaeus</i> , European hare	7 yr.,	5 mo., 1971
<i>Sylvilagus idahoensis</i> , Idaho pigmy rabbit	2 yr.,	0 mo., 1979*
<i>Oryctolagus cuniculus</i> , old world wild rabbit	5 yr.,	4 mo., 1913
<i>Nesolagus netscheri</i> , Sumatran short-eared rabbit	0 yr.,	-1 mo., 1895

Order *Rodentia*Family *Aplodontidae*

<i>Aplodontia rufa</i> , sewellel	3 yr.,	6 mo., 1978
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Family *Sciuridae*

<i>Sciurus carolinensis</i> , eastern grey squirrel	23 yr.,	6 mo., 1973
<i>Syntheosciurus granatensis</i> , white-bellied squirrel	8 yr.,	4 mo., 1968
<i>Sciurillus pusillus</i> , Neotropical pigmy squirrel	0 yr.,	+1 mo., 1888
<i>Tamiasciurus hudsonicus</i> , eastern red squirrel	9 yr.,	10 mo., 1898
<i>Funambulus palmarum</i> , Indian palm squirrel	5 yr.,	6 mo., 1905
<i>Ratufa indica</i> , Indian giant squirrel	20 yr.,	0 mo., 1979

<i>Proterocercus stangeri</i> , Stanger's oil-palm squirrel	5 yr., 1 mo., 1954
<i>Funisciurus leucostigma</i> , white-spotted squirrel	9 yr., 6 mo., 1931
<i>Paraxerus cepapi</i> , bush squirrel	2 yr., 4 mo., 1926
<i>Heliosciurus r. isabellinus</i> , isabelline sun squirrel	8 yr., 11 mo., 1967
<i>Myosciurus pumilio</i> , African pigmy squirrel	0 yr., +1 mo., 1953
<i>Callosciurus erythraeus</i> , Pallas' squirrel	16 yr., 1 mo., 1979*
<i>Menetes berdmorei</i> , Berdmore's palm squirrel	4 yr., 4 mo., 1978
<i>Lariscus i. jolarenensis</i> , Mahy black-striped squirrel	2 yr., 11 mo., 1961
<i>Dremomys lokriah</i> , Himalayan yellow-bellied squirrel	7 yr., 1 mo., 1973
<i>Atlantoxerus getulus</i> , Barbary ground squirrel	5 yr., 7 mo., 1971
<i>Xerus erythropus</i> , red-footed ground squirrel	4 yr., 0 mo., 1972*
<i>Geosciurus rutilus</i> , Sudan ground squirrel	6 yr., 1 mo., 1920
<i>Spermophilopsis leptodactylus</i> , long-clawed ground squirrel	0 yr., +1 mo., 1957
<i>Marmota marmota</i> , European marmot	12 yr., 0 mo., 1968
<i>Cynomys ludoricianus</i> , black-tailed prairie dog	8 yr., 6 mo., 1921
<i>Spermophilus tridecemlineatus</i> , thirteen-lined ground squirrel	7 yr., 11 mo., 1909
<i>Ammospermophilus leucurus</i> , white-tailed antelope squirrel	5 yr., 10 mo., 1952
<i>Otospermophilus variegatus</i> , rock squirrel	10 yr., 10 mo., 1975
<i>Callospermophilus lateralis</i> , golden-mantled ground squirrel	8 yr., 5 mo., 1958
<i>Tamias striatus</i> , eastern chipmunk	7 yr., 0 mo., 1898
<i>Eutamias dorsalis</i> , cliff chipmunk	8 yr., 4 mo., 1975*
<i>Petaurista alborufus</i> , Yunnan giant flying squirrel	15 yr., 1 mo., 1979*
<i>Pteromys volans</i> , European flying squirrel	3 yr., 10 mo., 1936
<i>Glaucomys volans</i> , flying squirrel	12 yr., 0 mo., 1936*
<i>Hylopetessagitta</i> , Javan flying squirrel	5 yr., 9 mo., 1912
<i>Petinomys hageni</i> , Sumatran flying squirrel	4 yr., 7 mo., 1930
<i>Petaurillus hosei</i> , pigmy flying squirrel	0 yr., +1 mo., 1959
Family Geomyidae	
<i>Geomys bursarius</i> , plains pocket gopher	7 yr., 2 mo., 1906
<i>Thomomys t. yelmensis</i> , northern pocket gopher	1 yr., 8 mo., 1939
<i>Cratogeomys castaneops</i> , chestnut-faced pocket gopher	0 yr., 8 mo., 1901
Family Heteromyidae	
<i>Perognathus fallax</i> , San Diego pocket gopher	8 yr., 4 mo., 1950
<i>Microdipodops m. leucotis</i> , dark pigmy kangaroo rat	5 yr., 5 mo., ⁷
<i>Dipodomys o. richardsoni</i> , Richardson's kangaroo rat	9 yr., 10 mo., 1928
<i>Heteromys anomalus</i> , forest spiny pocket mouse	0 yr., +1 mo., 1966
Family Castoridae	
<i>Castor canadensis</i> , American beaver	15 yr., 10 mo., 1899
Family Anomaluridae	
<i>Anomalurus jacksoni</i> , Jackson's scaly-tailed flying squirrel	0 yr., 1 mo., 1949
Family Pedetidae	
<i>Pedetes c. surdaster</i> , East African springhare	13 yr., 10 mo., 1977
Family Cricetidae	
<i>Oryzomys longicaudatus</i> , Chilean rice rat	2 yr., 10 mo., 1916
<i>Nectomys squamipes</i> , Neotropical water rat	1 yr., 6 mo., 1906
<i>Rhipidomys v. nitela</i> , climbing mouse	0 yr., +1 mo., 1937
<i>Tylomys nudicaudatus</i> , Peters' climbing rat	5 yr., 5 mo., 1978
<i>Nyctomys sumichrasti</i> , Sumichrasti's vesper mouse	5 yr., 2 mo., 1938
<i>Reithrodontomys f. intermedius</i> , Rio Grande harvest mouse	1 yr., 9 mo., 1905
<i>Peromyscus c. pergracilis</i> , canyon mouse	7 yr., 8 mo., ⁶
<i>Ochrotomys n. aureolus</i> , golden mouse	6 yr., 0 mo., 1974
<i>Batomys taylora</i> , northern pigmy mouse	3 yr., 0 mo., 1962

⁷ see EGOSQUE, H. J. in reference list

<i>Onychomys torridus</i> , northern grasshopper mouse	4 yr., 7 mo., 1971
<i>Akodon azarae</i> , pampas field mouse	0 yr., 6 mo., 1897
<i>Ozomys rufus</i> , Brazilian burrowing mouse	2 yr., 7 mo., 1916
<i>Phyllotis griseoflavus</i> , leaf-eared mouse	0 yr., +1 mo., 1897
<i>Reithrodon cuniculoides</i> , Patagonian rabbit rat	5 yr., 6 mo., 1938
<i>Holochilus b. venezuelae</i> , Venezuelan marsh rat	0 yr., +1 mo., 1956
<i>Sigmodon hispidus</i> , hispid cotton rat	5 yr., 2 mo., 1947
<i>Neotoma albigula</i> , white-throated wood rat	7 yr., 8 mo., 1966
<i>Phodopus sungorus</i> , dwarf hamster	3 yr., 2 mo., 1979*
<i>Cricetulus barabensis</i> , Siberian hamster	2 yr., 7 mo., 1971
<i>Cricetus cricetus</i> , European hamster	2 yr., 10 mo., 1913
<i>Mesocricetus auratus</i> , golden hamster	0 yr., 8 mo., 1967
<i>Mystromys albicaudatus</i> , white-tailed rat	3 yr., 11 mo., 1942
<i>Nesomys rufus</i> , Madagascan red mouse	1 yr., 2 mo., 1968
<i>Lophiomys l. ibeatus</i> , East African maned rat	7 yr., 6 mo., 1967
<i>Dicrostonyx g. richardsoni</i> , Richardson's lemming	1 yr., 1 mo., 1955
<i>Synaptomys cooperi</i> , bog lemming	0 yr., +1 mo., 1938
<i>Lemmus lemmus</i> , Norway lemming	0 yr., 8 mo., 1939
<i>Clethrionomys g. britannicus</i> , British bank vole	4 yr., 11 mo., 1909
<i>Arvicola t. scherman</i> , Eastern European water vole	2 yr., 5 mo., 1917
<i>Ondatra zibethicus</i> , muskrat	5 yr., 6 mo., 1889
<i>Phenacomys longicaudatus</i> , red tree mouse	0 yr., 2 mo., 1938
<i>Pitymys pinetorum</i> , pine mouse	2 yr., 3 mo., 1962
<i>Microtus guentheri</i> , Guenther's vole	3 yr., 11 mo., 1942
<i>Lagurus c. intermedius</i> , sagebrush vole	1 yr., 11 mo., 6
<i>Gerbillus pyramidum</i> , greater Egyptian gerbil	8 yr., 2 mo., 1944
<i>Tatera indica</i> , Indian gerbil	7 yr., 0 mo., 1969
<i>Taterillus gracilis</i> , small naked-soled gerbil	0 yr., +1 mo., 1947
<i>Desmodillus auricularis</i> , Cape short-tailed gerbil	0 yr., +1 mo., 1911
<i>Pachyuromys duprasi</i> , fat-tailed sand mouse	4 yr., 5 mo., 1929
<i>Meriones crassus</i> , Sundevall's jird	5 yr., 7 mo., 1958
<i>Sekeetamys calurus</i> , bushy-tailed jird	5 yr., 5 mo., 1918
<i>Psammomys obesus</i> , fat sand rat	2 yr., 11 mo., 1939
Family Spalacidae	
<i>Spalax microphthalmus</i> , Russian mole rat	2 yr., 0 mo., 1932
Family Rhizomyidae	
<i>Tachyoryctes s. ibeatus</i> , Kenya mole rat	1 yr., 10 mo., 1956
<i>Rhizomys sumatrensis</i> , Sumatran bamboo rat	3 yr., 6 mo., 1941
<i>Cannomys badius</i> , bay bamboo rat	3 yr., 3 mo., 1970
Family Muridae	
<i>Tandeleuria o. nilagiraca</i> , Nilgiri long-tailed climbing mouse	0 yr., +1 mo., 1957
<i>Micromys m. soricinus</i> , European harvest mouse	2 yr., 8 mo., 1979*
<i>Apodemus sylvaticus</i> , common field mouse	4 yr., 5 mo., 1974
<i>Grammomys dolichurus</i> , long-tailed thicket rat	4 yr., 5 mo., 1979*
<i>Pithecheir melanurus</i> , Malay tree rat	0 yr., +1 mo., 1870
<i>Hyomys strobilurus</i> , white-eared giant rat	0 yr., -1 mo., 1964
<i>Mesembriomys gouldi</i> , rabbit-eared rat	3 yr., 11 mo., 1939
<i>Oenomys hypoxanthus</i> , rufous-nosed rat	0 yr., +1 mo., 1947
<i>Dasyomys incomptus</i> , shaggy-haired rat	0 yr., +1 mo., 1908
<i>Arvicanthia niloticus</i> , Nile kusu	6 yr., 8 mo., 1901
<i>Golunda ellioti</i> , Indian bush rat	2 yr., 5 mo., 1966
<i>Lemniscomys striatus</i> , striped grass mouse	4 yr., 10 mo., 1976
<i>Rhabdomys pumilio</i> , four-striped mouse	2 yr., 11 mo., 1972
<i>Millardia gleadowi</i> , soft-furred rat	4 yr., 0 mo., 1970
<i>Thallomys nigricauda</i> , acacia rat	3 yr., 6 mo., 1974

<i>Rattus tullbergi</i> , Tullberg's rock rat	5 yr., 2 mo., 1952
<i>Gyomys novae-hollandiae</i> , New Holland field mouse	1 yr., 0 mo., 1971*
<i>Leporillus conditor</i> , Australian stick-nest rat	0 yr., +1 mo., 1971
<i>Pseudomys australis</i> , Minnie Downs rat	5 yr., 7 mo., 1976
<i>Melomys littoralis</i> , little tree rat	0 yr., +1 mo., 1971
<i>Malacomys edwardsi</i> , Edward's big-eared swamp rat	1 yr., 10 mo., 1938
<i>Zelotomys hildegardae</i> , broad-headed rat	0 yr., 7 mo., 1939
<i>Mus minutoides</i> , South African pigmy mouse	3 yr., 1 mo., 1974
<i>Lophuromys sikapusi</i> , harsh-furred rat	1 yr., 7 mo., 1949
<i>Notomys alexis</i> , brown hopping mouse	5 yr., 2 mo., 1977
<i>Acomys c. dimidiatus</i> , Arabian spiny mouse	5 yr., 0 mo., 1972
<i>Bandicota bengalensis</i> , black bandicoot rat	0 yr., +1 mo., 1952
<i>Nesokia indica</i> , Indian pest rat	0 yr., +1 mo., 1885
<i>Beamys major</i> , long-tailed pouched rat	3 yr., 2 mo., 1973
<i>Saccostomus campestris</i> , Cape pouched rat	2 yr., 9 mo., 1952
<i>Cricetomys gambianus</i> , giant pouched rat	7 yr., 10 mo., 1978
<i>Dendromus mesomelas</i> , African climbing mouse	3 yr., 3 mo., 1973
<i>Malacothrix typicus</i> , long-eared gerbil	2 yr., 6 mo., 1969
<i>Steatomys pratensis</i> , South African fat mouse	1 yr., 4 mo., 1950
<i>Otomys irroratus</i> , South African swamp rat	0 yr., -1 mo., 1971
<i>Parotomys brantsi</i> , Brant's karoo rat	0 yr., +1 mo., 1911
<i>Pogonomys macrourus</i> , New Guinea prehensile-tailed rat	2 yr., 5 mo., 1977
<i>Chiropodomys gliroides</i> , pencil-tailed tree mouse	3 yr., 6 mo., 1953
<i>Phloeomys cumingi</i> , slender-tailed cloud rat	13 yr., 7 mo., 1967
<i>Crateromys schadenbergi</i> , bushy-tailed cloud rat	4 yr., 3 mo., 1951
<i>Hydromys chrysogaster</i> , golden-bellied water rat	0 yr., -1 mo., 1917
Family Myoxidae	
<i>Myoxus glis</i> , fat dormouse	8 yr., 8 mo., 1940
<i>Muscardinus avellanus</i> , hazel dormouse	2 yr., 6 mo., 1914
<i>Elionomys quercinus</i> , European garden dormouse	5 yr., 6 mo., 1928
<i>Dryomys nitedula</i> , tree dormouse	0 yr., 6 mo., 1933
<i>Glirulus japonicus</i> , Japanese dormouse	0 yr., +1 mo., 1950
<i>Graphiurus murinus</i> , African bushy-tailed dormouse	5 yr., 9 mo., 1972
Family Zapodidae	
<i>Sicista s. trizona</i> , Hungarian birch mouse	0 yr., 9 mo., 1930
<i>Zapus hudsonius</i> , American meadow jumping mouse	5 yr., 0 mo., 1916
<i>Napaeozapus insignis</i> , woodland jumping mouse	0 yr., 3 mo., 1939
Family Dipodidae	
<i>Dipus sagitta</i> , feather-footed jerboa	0 yr., 6 mo., 1968
<i>Jaculus jaculus</i> , Egyptian jerboa	6 yr., 3 mo., 1919
<i>Allactaga euphratica</i> , Euphrates jerboa	4 yr., 2 mo., 1967
<i>Salpingotus michaelis</i> , three-toed dwarf jerboa	0 yr., 1 mo., 1969
Family Hystricidae	
<i>Thecurus punilus</i> , Palawan porcupine	9 yr., 6 mo., 1972
<i>Hystrix b. longicauda</i> , Sumatran porcupine	27 yr., 3 mo., 1965
<i>Atherurus centralis</i> , Central African brush-tailed porcupine	20 yr., 4 mo., 1969
<i>Trichys lipura</i> , Bornean long-tailed porcupine	10 yr., 1 mo., 1979*
Family Erethizontidae	
<i>Erethizon dorsatum</i> , Canadian porcupine	8 yr., 5 mo., 1975
<i>Coendou prehensilis</i> , Brazilian tree porcupine	17 yr., 4 mo., 1967
<i>Echinoprocta rufescens</i> , Upper Amazonian porcupine	0 yr., 1 mo., 1967
Family Caviidae	
<i>Cavia tschudii</i> , Peruvian cavy	6 yr., 3 mo., 1923
<i>Kerodon rupestris</i> , rock cavy	6 yr., 5 mo., 1939

<i>Galea spixi</i> , Spix's cavy	4 yr., 7 mo., 1911
<i>Dolichotis patagona</i> , Patagonian cavy or mara	11 yr., 10 mo., 1957
Family <i>Hydrochoeridae</i>	
<i>Hydrochoerus hydrochaeris</i> , capybara	11 yr., 11 mo., 1924
Family <i>Dinomyidae</i>	
<i>Dinomys branicki</i> , pacarana	9 yr., 5 mo., 1956
Family <i>Dasyproctidae</i>	
<i>Agouti paca</i> , spotted paca	16 yr., 0 mo., 1947
<i>Dasyprocta aguti</i> , golden-rumped agouti	17 yr., 9 mo., 1929
<i>Myoprocta acouchy</i> , red acouchy	10 yr., 2 mo., 1974
Family <i>Chinchillidae</i>	
<i>Lagostomus maximus</i> , viscacha	6 yr., 8 mo., 1973
<i>Lagidium peruanum</i> , Peruvian mountain viscacha	19 yr., 6 mo., 1966
<i>Chinchilla laniger</i> , chinchilla	11 yr., 4 mo., 1972
Family <i>Capromyidae</i>	
<i>Capromys pilorides</i> , Cuban hutia	11 yr., 4 mo., 1917
<i>Geocapromys browni</i> , Brown's hutia	8 yr., 4 mo., 1977
<i>Plagiodontia aedium</i> , hutia	9 yr., 11 mo., 1979*
<i>Myocastor coypus</i> , coypu	6 yr., 2 mo., 1909
Family <i>Octodontidae</i>	
<i>Octodon degus</i> , degu	7 yr., 1 mo., 1978*
<i>Octodontomys gliroides</i> , chozchoris	7 yr., 4 mo., 1979*
<i>Spalacopus cyanus</i> , coruro	5 yr., 10 mo., 1979*
Family <i>Ctenomyidae</i>	
<i>Ctenomys talarum</i> , tuco tuco	2 yr., 2 mo., 1970
Family <i>Abrocomidae</i>	
<i>Abrocoma bennetti</i> , Bennett's chinchilla rat	2 yr., 4 mo., 1951
Family <i>Echimyidae</i>	
<i>Proechimys semispinosus</i> , spiny rat	4 yr., 10 mo., 1975
<i>Euryzygomatomys spinosus</i> , Guira spiny rat	0 yr., $\pm$ 1 mo., 1865
<i>Cercomys cunicularius</i> , Brazilian spiny rat	1 yr., 9 mo., 1952
<i>Mesomys obscurus</i> , spiny rat	0 yr., $\pm$ 1 mo., 1907
<i>Echimys armatus</i> , Guyana spiny rat	3 yr., 1 mo., 1953
<i>Kannabateomys amblonyx</i> , rato de taquera	1 yr., 7 mo., 1905
Family <i>Tryonomysidae</i>	
<i>Tryonomys swinderianus</i> , cane rat	4 yr., 4 mo., 1934
Family <i>Bathygeridae</i>	
<i>Georhynchus bocagei</i> , Boeage's mole rat	3 yr., 0 mo., 1927
<i>Cryptomys damarensis</i> , Damara blesmol	2 yr., 5 mo., 1952
<i>Heliophobius a. albifrons</i> , sand rat	3 yr., 0 mo., 1927
<i>Heterocephalus glabar</i> , naked sand rat	5 yr., 0 mo., 1979*
Family <i>Ctenodactylidae</i>	
<i>Ctenodactylus gundi</i> , gundi	0 yr., 5 mo., 1928
Order <i>Cetacea</i>	
Family <i>Platanistidae</i>	
<i>Platanista gangetica</i> , Ganges blind dolphin	0 yr., $\pm$ 1 mo., 1968
<i>Inia geoffrensis</i> , Amazonian dolphin	9 yr., 1 mo., 1971
	est 15 yr., 0 mo.,
Family <i>Ziphiidae</i>	
<i>Ziphius cavirostris</i> , Cuvier's beaked whale	0 yr., $\pm$ 1 mo., 1956

Family *Physeteridae*

Kogia breviceps, pigmy sperm whale 0 yr., -1 mo., 1968

Family *Monodontidae*

Delphinapterus leucas, beluga or white whale 17 yr., 4 mo., 1978*

Monodon monoceros, narwhal 0 yr., 4 mo., 1970

Family *Delphinidae*

Steno bredanensis, rough-toothed dolphin 15 yr., 0 mo., 1979*

Sotalia guianensis, river dolphin 1 yr., 7 mo., 1979*

Stenella longirostris, spinner dolphin 9 yr., 4 mo., 1972

Delphinus delphis, common dolphin 0 yr., 4 mo., 1964

Grampus griseus, Risso's dolphin 13 yr., 0 mo., 1971*

Tursiops truncatus, Atlantic bottle-nosed dolphin 25 yr., 0 mo., 1978*

Lagenorhynchus obliquidens, white-sided dolphin 10 yr., 8 mo., 1974

Peponocephala electra, broad-beaked dolphin 0 yr., +1 mo., 1965

Feresa attenuata, pigmy killer whale 0 yr., -1 mo., 1966

Cephalorhynchus commersoni, Commerson's dolphin 0 yr., 6 mo., 1979*

Orcinus orca, killer whale 12 yr., 2 mo., 1979*

Pseudorca crassidens, false killer whale 14 yr., 0 mo., 1979*

Orcella brevirostris, Mahakan river dolphin 4 yr., 0 mo., 1978*

Globicephala meluena, Pacific pilot whale 11 yr., 0 mo., 1970

Phocaena phocaena, harbor porpoise 0 yr., +1 mo., 1965

Phocaenoides dalli, Dall's porpoise 0 yr., +1 mo., 1957

Neophocaena phocaenoides, black finless porpoise 3 yr., 0 mo., 1978*

Family *Eschrichtidae*

Eschrichtius robustus, grey whale 1 yr., 0 mo., 1972

Family *Balaenopteridae*

Balaenoptera acutorostrata, minke whale 0 yr., 1 mo., 1955

Order *Carnivora*Family *Canidae*

Canis latrans, coyote 21 yr., 10 mo., 1904

Alopex lagopus, Arctic fox 15 yr., 0 mo., 1964

Vulpes macrotis, kit fox 20 yr., 0 mo., 1973*

Fennecus zerda, fennec 14 yr., 7 mo., 1975

Urocyon cinereoargenteus, grey fox 13 yr., 8 mo., 1946

Nyctereutes procyonoides, raccoon-like dog 10 yr., 8 mo., 1961

Dusicyon gymnocercus, Brazilian wild dog 13 yr., 8 mo., 1947

Atelocynus microtis, small-eared dog 11 yr., 0 mo., 1961

Cerdocyon thous, crab-eating dog 10 yr., 10 mo., 1938

Chrysocyon brachyurus, maned wolf 13 yr., 0 mo., 1973

Speothos venaticus, bush dog 10 yr., 4 mo., 1977

Cuon j. sumatrensis, Sumatran dhole 14 yr., 8 mo., 1940

Lycan pictus, African hunting dog 10 yr., 1 mo., 1904

Otocyon megalotis, bat-eared fox 13 yr., 9 mo., 1949

Family *Ursidae*

Tremarctos ornatus, spectacled bear 36 yr., 5 mo., 1977

Selenarctos tibetanus, Asiatic black bear 31 yr., 6 mo., 1975

Ursus a. gyas, Alaska peninsula brown bear 36 yr., 10 mo., 1958

Euarctos a. amblyceps, New Mexico black bear 26 yr., 4 mo., 1976

U. arctos × *S. tibetanus*, hybrid bear 36 yr., 6 mo., 1955

Thalarchos maritimus, polar bear 34 yr., 7 mo., 1947

T. maritimus × *U. a. middendorffi*, hybrid bear 38 yr., 1 mo., 1974

Helarctos malayanus, sun bear 24 yr., 9 mo., 1964

Melursus ursinus, sloth bear 28 yr., 0 mo., 1978

Ailuropoda melanoleuca, giant panda 26 yr., 0 mo., 1978*

Family *Procyonidae*

<i>Bassariscus astuta</i> , cacomistle	14 yr.,	3 mo., 1936
<i>Jentinkia sumichrasti</i> , Central American cacomistle	8 yr.,	0 mo., 1979*
<i>Procyon lotor</i> , raccoon	20 yr.,	7 mo., 1973*
<i>Nasua narica</i> , white-nosed coati	17 yr.,	8 mo., 1970*
<i>Nasuella olivacea</i> , little coati	1 yr.,	6 mo., 1950
<i>Potos flavus</i> , kinkajou	23 yr.,	2 mo., 1975*
<i>Bassaricyon gubbi</i> , olingo	17 yr.,	1 mo., 1979*
<i>Ailurus fulgens</i> , lesser panda	13 yr.,	5 mo., 1965

Family *Mustelidae*

<i>Mustela sibirica</i> , Siberian weasel	8 yr.,	10 mo., 1973
<i>Formela peregusna</i> , marbled polecat	8 yr.,	11 mo., 1977*
<i>Martes foina</i> , stone marten	18 yr.,	1 mo., 1979*
<i>Eira barbara</i> , tayra	17 yr.,	5 mo., 1930
<i>Galictis vittata</i> , grison	10 yr.,	6 mo., 1970*
<i>Ictonyx striatus</i> , zorilla	13 yr.,	4 mo., 1937
<i>Poecilictis libyca</i> , North African striped weasel	4 yr.,	7 mo., 1918
<i>Poecilogale albinucha</i> , white-naped weasel	0 yr.,	11 mo., 1958
<i>Gulo g. luscus</i> , American wolverine	17 yr.,	4 mo., 1946
<i>Mellivora capensis</i> , Cape ratel	26 yr.,	5 mo., 1977
<i>Meles meles</i> , European badger	16 yr.,	2 mo., 1976
<i>Arctonyx collaris</i> , hog badger	13 yr.,	11 mo., 1978
<i>Taxidea taxus</i> , American badger	26 yr.,	0 mo., 1955
<i>Melogale m. subaurantiaca</i> , Formosan ferret badger	10 yr.,	6 mo., 1978*
<i>Mephitis m. avia</i> , striped skunk	12 yr.,	11 mo., 1973*
<i>Spilogale p. gracilis</i> , spotted skunk	9 yr.,	10 mo., ⁸
<i>Conepatus chinga</i> , Argentine hog-nosed skunk	6 yr.,	7 mo., 1912
<i>Lutra canadensis</i> , Canadian otter	21 yr.,	0 mo., 1978
<i>Pteronura brasiliensis</i> , giant otter	12 yr.,	10 mo., 1974
<i>Amblonyx cinerea</i> , oriental small-clawed otter	10 yr.,	1 mo., 1947
<i>Aonyx capensis</i> , African clawless otter	11 yr.,	0 mo., 1979*
<i>Paronyx congica</i> , African small-clawed otter	1 yr.,	0 mo., 1974
<i>Enhydra lutris</i> , sea otter	15 yr.,	0 mo., 1978
	est 19 yr.,	0 mo.,

Family *Viverridae*

<i>Poiana richardsoni</i> , African linsang	5 yr.,	4 mo., 1918
<i>Genetta genetta</i> , European genet	21 yr.,	6 mo., 1978
<i>Viverricula indica</i> , lesser oriental civet	10 yr.,	6 mo., 1940
<i>Viverra zibetha</i> , Indian civet	15 yr.,	4 mo., 1913
<i>Civettictis civetta</i> , African civet	28 yr.,	0 mo., 1968
<i>Prionodon linsang</i> , banded linsang	10 yr.,	8 mo., 1979
<i>Nandinia binotata</i> , African two-spotted palm civet	15 yr.,	10 mo., 1975*
<i>Arctogalidia trivirgata</i> , small-toothed palm civet	15 yr.,	10 mo., 1979*
<i>Paradoxurus hermaphroditus</i> , Indo-Malay palm civet	14 yr.,	5 mo., 1913
<i>Paguma larvata</i> , masked palm civet	15 yr.,	5 mo., 1892
<i>Arctictis binturong</i> , binturong	22 yr.,	8 mo., 1976*
<i>Fossa fossa</i> , fanaloka	11 yr.,	0 mo., 1977
<i>Hemigalus derbianus</i> , banded palm civet	12 yr.,	0 mo., 1979*
<i>Cynogale bennetti</i> , otter civet	5 yr.,	0 mo., 1972
<i>Galidia elegans</i> , Madagascan ring-tailed mongoose	13 yr.,	2 mo., 1979*
<i>Galidictis striata</i> , Mad. broad-striped mongoose	0 yr.,	3 mo., 1907
<i>Mungotictis lineata</i> , Mad. narrow-striped mongoose	0 yr.,	4 mo., 1906
<i>Salanoia unicolor</i> , Mad. brown-tailed mongoose	4 yr.,	9 mo., 1913
<i>Suricata suricatta</i> , suricate or meerkat	12 yr.,	6 mo., 1972*

⁸ see EGOSQUE, H. J. in reference list

<i>Herpestes urva</i> , crab-eating mongoose	13 yr.,	4 mo., 1978
<i>Heloqale parvula</i> , dwarf mongoose	10 yr.,	11 mo., 1978
<i>Atilax p. rubescens</i> , Kenya marsh mongoose	17 yr.,	5 mo., 1979*
<i>Mungos mungo</i> , banded mongoose	8 yr.,	4 mo., 1914
<i>Crossarchus obscurus</i> , kusimanse	8 yr.,	2 mo., 1974
<i>Ichneumia a. ibeana</i> , East African white-tailed mongoose	10 yr.,	0 mo., 1969*
<i>Bdeogale nigripes</i> , black-footed mongoose	15 yr.,	10 mo., 1976
<i>Cynictis penicillata</i> , yellow mongoose	15 yr.,	2 mo., 1968
<i>Paracynictis selousi</i> , Selous' mongoose	0 yr.,	÷ 1 mo., 1923
<i>Cryptoprocta ferox</i> , fossa	17 yr.,	0 mo., 1926
Family <i>Hyaenidae</i>		
<i>Proteles cristatus</i> , aardwolf	14 yr.,	3 mo., 1979*
<i>Crocuta c. habessinica</i> , Abyssinian spotted hyena	41 yr.,	1 mo., 1965
<i>Hyaena hyaena</i> , striped hyena	22 yr.,	11 mo., 1924
Family <i>Felidae</i>		
<i>Lynx rufus</i> , bobcat	32 yr.,	4 mo., 1974
<i>Felis pardalis</i> , ocelot	20 yr.,	3 mo., 1972
<i>Panthera t. tigris</i> , Bengal tiger	26 yr.,	3 mo., 1958
<i>Neofelis nebulosa</i> , clouded leopard	16 yr.,	8 mo., 1970
<i>Uncia uncia</i> , snow leopard	15 yr.,	4 mo., 1944
<i>Acinonyx jubatus</i> , cheetah	15 yr.,	8 mo., 1972
	est 16 yr.,	6 mo.,
Order <i>Pinnipedia</i>		
Family <i>Otariidae</i>		
<i>Otaria flavescens</i> , South American sea lion	22 yr.,	10 mo., 1973
	est 24 yr.,	10 mo.,
<i>Eumetopias jubatus</i> , Steller's sea lion	17 yr.,	3 mo., 1918
<i>Zalophus californianus</i> , California sea lion	28 yr.,	0 mo., 1956
<i>Neophoca cinerea</i> , Australian sea lion	8 yr.,	4 mo., 1977
<i>Arctocephalus pusillus</i> , South African fur seal	21 yr.,	0 mo., 1974
<i>Callorhinus ursinus</i> , northern fur seal	12 yr.,	0 mo., 1970*
Family <i>Odobenidae</i>		
<i>Odobenus rosmarus</i> , walrus	16 yr.,	8 mo., 1977*
Family <i>Phocidae</i>		
<i>Phoca v. richardi</i> , Pacific harbor seal	32 yr.,	0 mo., 1969
<i>Pusa hispida</i> , ringed seal	15 yr.,	0 mo., 1929
<i>Histiophoca fasciata</i> , ribbon seal	0 yr.,	8 mo., 1971
<i>Pagophilus groenlandicus</i> , harp seal	4 yr.,	7 mo., 1970*
<i>Halichoerus grypus</i> , grey seal	41 yr.,	0 mo., 1942
<i>Eriophthalmus barbatus</i> , bearded seal	0 yr.,	3 mo., 1930
<i>Monachus monachus</i> , Mediterranean monk seal	23 yr.,	8 mo., 1978
<i>Lobodon carcinophagus</i> , crab-eating seal	0 yr.,	1 mo., 1940
<i>Hydrurga leptonyx</i> , leopard seal	6 yr.,	11 mo., 1970
<i>Leptonychotes weddelli</i> , Weddell seal	0 yr.,	7 mo., 1966
<i>Cystophora cristata</i> , hooded seal	2 yr.,	0 mo., 1966
<i>Mirounga leonina</i> , southern elephant seal	15 yr.,	0 mo., 1940
Order <i>Tubulidentata</i>		
Family <i>Orycteropodidae</i>		
<i>Orycteropus afer</i> , aardvark	23 yr.,	0 mo., 1979*
Order <i>Proboscidea</i>		
Family <i>Elephantidae</i>		
<i>Elephas maximus</i> , Asiatic elephant	57 yr.,	0 mo., 1939
	est 69 yr.,	0 mo.,
<i>Loxodonta africana</i> , African elephant	48 yr.,	0 mo., 1924

Order <i>Hyracoidea</i>		
Family <i>Procaviidae</i>		
<i>Dendrohyrax a. ruwenzorii</i> , Ruwenzori tree hyrax	12 yr.,	3 mo., 1979*
<i>Heterohyrax syriacus</i> , Syrian hyrax	8 yr.,	10 mo., 1962
<i>Procavia capensis</i> , Cape hyrax	11 yr.,	0 mo., 1967
Order <i>Sirenia</i>		
Family <i>Dugongidae</i>		
<i>Dugong dugon</i> , dugong	8 yr.,	0 mo., 1968*
Family <i>Trichechidae</i>		
<i>Trichechus m. latirostris</i> , Florida manatee	30 yr.,	0 mo., 1979*
Order <i>Perissodactyla</i>		
Family <i>Equidae</i>		
<i>Equus h. hemippus</i> , Syrian wild ass	35 yr.,	10 mo., 1892
Family <i>Tapiridae</i>		
<i>Tapirus terrestris</i> , South American tapir	35 yr.,	0 mo., 1970
Family <i>Rhinocerotidae</i>		
<i>Rhinoceros unicornis</i> , Indian rhinoceros	40 yr.,	4 mo., 1904
<i>Didermoceros sumatrensis</i> , Sumatran rhinoceros	32 yr.,	8 mo., 1900
<i>Diceros bicornis</i> , African black rhinoceros	45 yr.,	0 mo., 1979*
<i>Ceratotherium s. simum</i> , southern white rhinoceros	31 yr.,	0 mo., 1977*
Order <i>Artiodactyla</i>		
Family <i>Suidae</i>		
<i>Potamochoerus porcus</i> , red river hog	20 yr.,	0 mo., 1979
<i>Sus scrofa</i> , European wild hog	21 yr.,	0 mo., 1949
<i>Phacochoerus aethiopicus</i> , African wart hog	18 yr.,	9 mo., 1958
<i>Hylochoerus meinertzhageni</i> , giant forest hog	2 yr.,	10 mo., 1957
<i>Babirusa b. alfurus</i> , Celebes babirussa	21 yr.,	5 mo., 1920
Family <i>Tayassuidae</i>		
<i>Patagonus wagneri</i> , chaco peccary	1 yr.,	0 mo., 1978
<i>Tayassu tajacu</i> , collared peccary	24 yr.,	7 mo., 1934
Family <i>Hippopotamidae</i>		
<i>Hippopotamus amphibius</i> , river hippopotamus	54 yr.,	4 mo., 1977
<i>Choeropsis liberiensis</i> , pigmy hippopotamus	38 yr.,	10 mo., 1979*
	est 43 yr.,	10 mo.,
Family <i>Camelidae</i>		
<i>Camelus f. forma bactrianus</i> , domestic bactrian camel	35 yr.,	5 mo., 1968*
<i>Lama guanicoe</i> , guanaco	28 yr.,	4 mo., 1971
<i>Vicugna vicugna</i> , vicuna	24 yr.,	9 mo., 1969
Family <i>Tragulidae</i>		
<i>Hyemoschus aquaticus</i> , water chevrotain	3 yr.,	6 mo., 1952
<i>Tragulus napu</i> , Greater Malay chevrotain	14 yr.,	0 mo., 1979*
Family <i>Cervidae</i>		
<i>Moschus moschiferus</i> , musk deer	13 yr.,	11 mo., 1974
<i>Muntiacus muntjak</i> ssp., Indian muntjac	17 yr.,	7 mo., 1979*
<i>Elaphodus c. ichangensis</i> , Hupeh tufted deer	6 yr.,	10 mo., 1939
<i>Dama dama</i> , fallow deer	15 yr.,	3 mo., 1922
<i>Axis axis</i> , axis deer	20 yr.,	9 mo., 1936
<i>Cervus c. scoticus</i> , Scottish red deer	26 yr.,	8 mo., 1954
<i>Elaphurus davidianus</i> , Père David deer	19 yr.,	5 mo., 1970
<i>Odocoileus v. osceola</i> , Florida white-tailed deer	18 yr.,	6 mo., 1921
<i>Blastocerus dichotomus</i> , swamp deer	2 yr.,	5 mo., 1904

<i>Blastoceros bezoarticus</i> , pampas deer	8 yr.,	7 mo., 1916
<i>Hippocamelus antisensis</i> , Andean deer	10 yr.,	7 mo., 1941
<i>Mazama americana</i> , red brocket	13 yr.,	10 mo., 1970
<i>Pudu pudu</i> , southern pudu	12 yr.,	6 mo., 1979*
<i>Alces a. alces</i> , European moose	17 yr.,	11 mo., 1968
<i>Rangifer tarandus</i> , reindeer	20 yr.,	2 mo., 1918
<i>Hydropotes inermis</i> , Chinese water deer	11 yr.,	5 mo., 1979*
<i>Capreolus c. pygargus</i> , Siberian roe deer	8 yr.,	6 mo., 1968
Family Giraffidae		
<i>Giraffa c. capensis</i> , Cape giraffe	36 yr.,	2 mo., 1973
<i>Okapia johnstoni</i> , okapi	28 yr.,	7 mo., 1976
	est 33 yr.,	
Family Antilocapridae		
<i>Antilocapra americana</i> , pronghorn	11 yr.,	10 mo., 1963
Family Bovidae		
<i>Tragelaphus strepsiceros</i> , greater kudu	20 yr.,	9 mo., 1957
<i>Boocercus c. isaaci</i> , East African bongo	17 yr.,	9 mo., 1950
<i>Taurotragus oryx</i> , eland	18 yr.,	8 mo., 1975
<i>Boselaphus tragocamelus</i> , nilgai	21 yr.,	8 mo., 1939
<i>Tetracerus quadricornis</i> , four-horned antelope	10 yr.,	0 mo., ⁹
<i>Bubalus a. f. bubalis</i> , domestic 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> , African buffalo	29 yr.,	6 mo., 1974
<i>Bison bison</i> , American bison	33 yr.,	0 mo., 1979
<i>Cephalophus nigrifrons</i> , black-fronted duiker	19 yr.,	8 mo., 1960
<i>Sylvicapra g. abyssinica</i> , Abyssinian duiker	14 yr.,	4 mo., 1963
<i>Kobus c. ellipsyprymnus</i> × <i>c. defassa</i> , hyb. waterbuck	18 yr.,	8 mo., 1953
<i>Redunca redunca</i> , Senegal reedbuck	18 yr.,	0 mo., 1960
<i>Pelea capreolus</i> , vaal rhebok	5 yr.,	0 mo., 1977*
<i>Hippotragus niger</i> , sable antelope	19 yr.,	9 mo., 1960
<i>Oryx g. beisa</i> , beisa oryx	18 yr.,	6 mo., 1976*
<i>Addax nasomaculatus</i> , addax	25 yr.,	4 mo., 1960
<i>Damaliscus d. philippii</i> , blesbok	21 yr.,	5 mo., 1942
<i>Alcelaphus b. buselaphus</i> , bubal hartebeest	18 yr.,	11 mo., 1916
<i>Beatragus hunteri</i> , Hunter's antelope	6 yr.,	7 mo., 1979*
<i>Connochactes t. albojubatus</i> , eastern white-bearded gnu	21 yr.,	5 mo., 1955
<i>Oreotragus o. saltatricoides</i> , Abyssinian klipspringer	12 yr.,	1 mo., 1966
<i>Ourebia o. cottoni</i> , Kenya oribi	12 yr.,	0 mo., 1979*
<i>Raphicerus campestris</i> , steinbok	8 yr.,	2 mo., 1975
<i>Nesotragus moschatus</i> , suni	10 yr.,	2 mo., 1977
<i>Neotragus pygmaeus</i> , royal antelope	6 yr.,	8 mo., 1968
<i>Madoqua k. hindei</i> , Thomas' dik-dik	11 yr.,	7 mo., 1974
<i>Dorcotragus megalotis</i> , beira antelope	0 yr.,	+1 mo., 1954
<i>Antelope cervicapra</i> , blackbuck	16 yr.,	9 mo., 1946
<i>Aepyceros m. rendilis</i> , Kenya impala	17 yr.,	5 mo., 1979*
<i>Ammodorcas clarkei</i> , dibatag	3 yr.,	0 mo., 1957
<i>Liotocranius walleri</i> , gerenuk	11 yr.,	5 mo., 1969
<i>Gazella dorcas</i> , dorcas gazelle	17 yr.,	1 mo., 1977
<i>Antidorcas marsupialis</i> , springbok	19 yr.,	0 mo., 1947
<i>Procopra gutturosa</i> , Mongolian gazelle	7 yr.,	0 mo., 1920
<i>Pantholops hodgsoni</i> , chiru	0 yr.,	+1 mo., 1964
<i>Saiga t. tatarica</i> , Russian saiga	8 yr.,	0 mo., 1970
<i>Naemorhaedus goral</i> , grey goral	17 yr.,	7 mo., 1898
<i>Capricornis crispus</i> , Japanese serow	10 yr.,	11 mo., 1977*

⁹ see FLOWER, S. S. below

<i>Oreamnos americanus</i> , North American mountain goat	13 yr., 8 mo., 1924
<i>Rupicapra rupicapra</i> , chamois	17 yr., 2 mo., 1967
<i>Budorcas t. taxicolor</i> , Burmese takin	15 yr., 10 mo., 1975
<i>Ovibos m. wardi</i> , Greenland musk-ox	16 yr., 8 mo., 1979*
<i>Hemitragus jemlahicus</i> , Himalayan tahr	21 yr., 9 mo., 1963
<i>Capra i. sibirica</i> , Siberian ibex	22 yr., 3 mo., 1930
<i>Pseudois n. szechuanensis</i> , Chinese blue sheep	20 yr., 3 mo., 1959
<i>Ammotragus lervia</i> , aoudad	20 yr., 11 mo., 1933
<i>Ovis a. musimon</i> , mouflon	19 yr., 2 mo., 1887

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