

7/12/2002 by
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Mammals of Wind Cave National Park 02/2002

List compiled by Jeremy Duckwitz, Small Mammal Researcher from SDSU and Barbara Muenchau, Wind Cave Resource Management.
Information from 1999/2000/2001 Small mammal research and from various museums housing specimens collected at Wind Cave National Park

Muenchau, Barbara. 2002.

Small mammals captured summer 1999/2000/2001 (19 Species collected by Jeremy Duckwitz)

Sorex haydeni (Hayden's shrew)

Cryptotis parva (least shrew)

Chaetodipus hispidus (hispid pocket mouse) (old name *Perognathus hispidus*) (sub-species *paradoxus*?)

2 spec. @ U of KS, 1968; 2 specimens at WICA (collected 5/2000 JD)

Sylvilagus audubonii (desert cottontail) (Sub-species *baileyi*?) 4 spec. @ U of Mich, 1948 and 1950; 1 spec. @ U of KS, 1968

Sylvilagus nuttallii (Nuttall's cottontail) Collected by Jeremy Duckwitz, 2001 (Turner states "Nuttall's inhabits wooded environs above 4500 feet in Central and Western Hills. Counterpart is Eastern Cottontail)

Tamias minimus (least chipmunk) (sub-species *silvaticus*?) 6 Specimens at U of KS, 1968

Spermophilus tridecemlineatus (thirteen-lined ground squirrel) (sub-species *olivaceus*?) 2 spec @ U of KS

Tamiasciurus hudsonicus (red squirrel) (?spec at U of Mich, 1948 near Wind cave) (sub-species *dakotensis*?)

Thomomys talpoides (northern pocket gopher) (sub-species *nebulosis*?) 1 spec. WICA, 2 spec. US Nat. Museum

Reithrodontomys megalotis (western harvest mouse) (sub-species *dychiei*?) 32 spec at U of KS, 1967, 1968

Peromyscus maniculatus (deer mouse) (sub-species *nebrascensis*?) 62 spec at U of KS, 1967 & 1968

Peromyscus leucopus (white-footed mouse) (sub-species *aridulus*) 1 specimen at WICA 1970, needs verification

Neotoma cinerea (bushy-tailed woodrat) 2 specimens @ U of KS, 1968

Clethrionomys gapperi (southern red-backed vole)

Microtus ochrogaster (prairie vole) (old name *Pitymys ochrogaster*) (Sub-species *similis* or *haydenii*?) 22 Specimens at U of KS

Microtus pennsylvanicus (meadow vole) (Sub-species *imperatus*?) 10 specimens at U of KS

Zapus hudsonius (meadow jumping mouse) (sub-species *campestris*?) 8 Spec. U of KS, 1968; 3 @ U of Mich,

Cynomys ludovicianus (black-tailed prairie dog) 1 spec. @ U of KS

Glaucomys sabrinus (northern flying squirrel)

Mammals not captured during survey but known to exist (recent and historical documentation)

* Referenced in "Mammals of the Black Hills of South Dakota and Wyoming" Ronald Turner, 1974.

Perognathus fasciatus (olive-backed pocket mouse) (sub-species *olivaceogriseus*?) 1 spec. @ U of KS, 1968

Sylvilagus floridanus (eastern cottontail) (subspecies *similis*?) 3 Specimens. @ of KS, 1967, 1968

Lepus townsendii (white-tailed jack rabbit) (* R. Turner & specimen from 1930's but actually from Wind Cave?)

Myotis lucifugus (little brown myotis) WICA specimens from 1934-35 Prob. Present

Myotis thysanodes pahasapensis (fringe-tail myotis) 3 spec. @ U of KS, 1968 Historic

Myotis volans (long-legged myotis) (sub-species *interior*?) 1 spec. @ U of Mich., 1949 and 6 spec. @ U of KS, 1968 Historic

Corynorhinus townsendii pallescens (Townsend's big-eared bat) spec. @ UW and School of Mines (?) Historic

Lasionycteris noctivagans (silver-haired bat) Spec. @ U of KS, 1968. R. Turner netted over sewage lagoon. Historic

Lasiurus cinereus (hoary bat) Spec @ U of KS, 1968. R. Turner, netted over sewage lagoons Historic

Eptesicus fuscus (big brown bat) (Sub-species *cinereus*?) WICA spec. from 1934-35, 17 spec. @ U of Mich., 1948-49

Erethizon dorsatum (common porcupine) (Sub-species *bruneri*?) specimen from 1934-35 (Observed by Resource Management, 2000)

Canis latrans (coyote) *1968 R. Turner, and specimen from WICA, 1934; (Many observations in 2000)

Procyon lotor (common raccoon) Specimens from 1934-35 and 1970 (Observed by Park personnel, 1998)

Mustela frenata (long-tailed weasel) (*R. Turner, 1968, other observations by park personnel in 1956, 63, 72, 79)

Mustela erminea (ermine) (carcass found in 3/2000 by B. Merrill. Specimen verified by Jeremy Duckwitz)

Mephitis mephitis (striped skunk) (Sub-species *hudsonica*?) Spec. @ WICA, 1934-35; 1 Spec. @ Smithsonian, 1934 Prob. Present

Taxidea taxus (American badger) (*1968, R. Turner; observed by NPS employee in 2000)

(Cont.)

Mammals not captured during survey but known to exist (recent and historical documentation) *

Referenced in "Mammals of the Black Hills of South Dakota and Wyoming" Ronald Turner, 1974.

Felis concolor (mountain lion) (Observed in 2000 by park personnel)

Felis rufus (bobcat) (Observed in 2000 by NPS employees, WICA spec. from 1930's and Spec. @ U of KS, 1967)

Cervus elaphus (elk) (Re-introduced) (Many observations in 2000)

Odocoileus hemionus (mule deer) (Many observations in 2000)

Odocoileus virginianus (white-tailed deer) (Many observations in 2000)

Antilocapra americana (pronghorn) (Re-introduced) (Many observations in 2000)

Bison bison (American bison) (Re-introduced) (Many observations in 2000)

Sciurus niger rufiventer (fox squirrel) (*1968, heard by R. Turner and 2001 observation by Resource Management Staff)

Mus musculus (House Mouse) **Introduced Species** (Sub-species *domesticus*?) Specimen at US National Museum, and U of KS, 1968

Mammals not positively known to occur, but probable to unlikely (may be lacking suitable habitat, however, documented in range maps) (Observations noted in Library Wildlife File)

** *Myotis ciliolabrium* was previously named *M. leibii*, and *M. subulatus*.

*** *M. septentrionalis* was split from *M. keenii* (*M. keenii* is not found in this area.)

Sorex nanus (dwarf shrew) Prob.

* *Marmota flaviventris* (yellow-bellied marmot) 1965 and 1966 observation near Norbeck Dam by Devenport; 1992 Pres. observation on cliff of Wind Cave canyon (cliff past lagoons) by Stan Allison

Castor canadensis (American beaver) Prob.

Reithrodontomys montanus (plains harvest mouse)

Onychomys leucogaster (northern grasshopper mouse)

Microtus longicaudus (long-tailed vole)

Ondatra zibethicus (muskrat) 2/1957 observation at Park Headquarters by Bryant, roadkill 2001. Observed twice in 2002

* *Myotis ciliolabrum* ** (western small-footed myotis) Observed by Dr. John Moore in 9/92 (3 bats) and 9/93 (1 bat) (possible specimen from 2001, not verified)

Myotis septentrionalis *** (northern myotis)

Myotis evotis (long-eared myotis) Observed in 1986 in Highland Creek Cave (coyote cave) by G. Nordquist (Bat expert from Minnesota – works with the state DNR)

Lasiurus borealis (eastern red bat)

Vulpes vulpes (red fox)

Vulpes velox (swift fox)

Mustela vison (mink)

Spilogale putorius (eastern spotted skunk) (Note from Resource Management files mentions that Harry Woodward, Supt. of Hot Springs Schools observed a spotted skunk near Norbeck Dam in 1951)

? **Gray Squirrel** Large bushy-tailed squirrel observed by Mike Laycock at west gate 9/26/1991 (could this have been a fox squirrel?)

Mammals extirpated from Park

Mustela nigripes (black-footed ferret) Last observed in 1977 by SD Game and Fish Wildlife Officer. Other observations are on file

Canis lupus (gray wolf)

Ursus americanus (black bear)

Ursus horribilis (grizzly bear)

Mammals of Wind Cave National Park

* Specimens collected By J. Duckwitz, 1999, 2000, 2001

Previously documented specimens or recent sightings.

<u>Common Name</u>	<u>Scientific Name</u>	<u>Remarks</u>
<u>Insectivores</u>		
*Hayden's shrew	<i>Sorex haydeni</i>	Common in park riparian areas
Merriam's shrew	<i>Sorex merriami</i>	No recorded observation; possible to occur
dwarf shrew	<i>Sorex nanus</i>	No recorded observation; likely to occur
*least shrew	<i>Cryptotis parva</i>	Rare in park grasslands
<u>Bats</u>		
#little brown myotis	<i>Myotis lucifugus</i>	Common in the park
#western small-footed myotis	<i>Myotis ciliolabrum</i>	Rare in park
#long-legged myotis	<i>Myotis volans</i>	Uncommon in park
northern myotis	<i>Myotis septentrionalis</i>	No recorded observation; possible to occur
?long-eared myotis	<i>Myotis evotis</i>	Rare in park
#fringe-tailed myotis	<i>Myotis thysanodes</i>	Uncommon in park
#Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	Uncommon in park
eastern red bat	<i>Lasiurus borealis</i>	No recorded observation; possible to occur
#hoary bat	<i>Lasiurus cinereus</i>	Uncommon in park
#silver-haired bat	<i>Lasionycteris noctivagans</i>	Uncommon in park
#big brown bat	<i>Eptesicus fuscus</i>	Uncommon in park
<u>Carnivores</u>		
black bear	<i>Ursus americanus</i>	Extirpated from park
grizzly bear	<i>Ursus horribilis</i>	Extirpated from park; 1894 last in Black Hills
#common raccoon	<i>Procyon lotor</i>	Occasionally seen in park
least weasel	<i>Mustela nivalis</i>	No recorded observation; possible to occur
#ermine	<i>Mustela erminea</i>	Occasionally seen in park
#long-tailed weasel	<i>Mustela frenata</i>	Rare in park
black-footed ferret	<i>Mustela nigripes</i>	Extirpated from park; last observed in 1971
mink	<i>Mustela vison</i>	No recorded observation; possible to occur
#striped skunk	<i>Mephitis mephitis</i>	Occasionally seen in park
eastern spotted skunk	<i>Spilogale putorius</i>	Rare in park; last observed in 1951
#American badger	<i>Taxidea taxus</i>	Occasionally seen in prairie dog towns
#coyote	<i>Canis latrans</i>	Common in park
gray wolf	<i>Canis lupus</i>	Extirpated from park; 1934 last in Black Hills
american marten	<i>Martes americana</i>	No recorded observation; do not occur in park
red fox	<i>Vulpes vulpes</i>	No recorded observation; possible to occur
common gray fox	<i>Urocyon cinereoargenteus</i>	No recorded observation; unlikely to occur
swift fox	<i>Vulpes velox</i>	No recorded observation; unlikely to occur
#mountain lion	<i>Felis concolor</i>	Occasionally seen in park
#bobcat	<i>Felis rufus</i>	Uncommon in park; rarely observed

Rodents

#yellow-bellied marmot	<i>Marmota flaviventris</i>	Occasional sightings in rocky areas
*black-tailed prairie dog	<i>Cynomys ludovicianus</i>	Abundant in park
*least chipmunk	<i>Tamias minimus</i>	Common in rocky outcrops and near dead snags
*red squirrel	<i>Tamiasciurus hudsonicus</i>	Common in park woodlands
#eastern fox squirrel	<i>Sciurus niger</i>	no recorded observation; possible to occur
*thirteen-lined ground squirrel	<i>Spermophilus tridecemlineatus</i>	Frequently seen near prairie dog towns
*northern flying squirrel	<i>Glaucomys sabrinus</i>	Uncommon in park; rarely observed
*northern pocket gopher	<i>Thomomys talpoides</i>	Common in park grasslands
#olive-backed pocket mouse	<i>Perognathus fasciatus</i>	Rare in park grasslands
silky pocket mouse	<i>Perognathus flavus</i>	No recorded observation; possible to occur
*hispid pocket mouse	<i>Chaetodipus hispidus</i>	Rare in park; arid and rocky habitats
Ord's kangaroo rat	<i>Dipodomys ordii</i>	No recorded observation; possible to occur
American beaver	<i>Castor canadensis</i>	No recorded observation; possible to occur
plains harvest mouse	<i>Reithrodontomys montanus</i>	No recorded observation; possible to occur
*western harvest mouse	<i>Reithrodontomys megalotis</i>	Uncommon in park grasslands
*deer mouse	<i>Peromyscus maniculatus</i>	Abundant throughout park
*white-footed mouse	<i>Peromyscus leucopus</i>	Abundant in moist draws and riparian areas
northern grasshopper mouse	<i>Onychomys leucogaster</i>	No recorded observation; likely to occur
*bushy-tailed woodrat	<i>Neotoma cinerea</i>	Common in rocky areas; near cave entrance
*meadow vole	<i>Microtus pennsylvanicus</i>	Common along riparian areas
*prairie vole	<i>Microtus ochrogaster</i>	Common in grasslands; cyclic population
*southern red-backed vole	<i>Clethrionomys gapperi</i>	Common in aspen and moist pine habitats
long-tailed vole	<i>Microtus longicaudus</i>	No recorded observation; possible to occur
#muskrat	<i>Ondatra zibethicus</i>	Rare in park due to unsuitable habitat
norway rat	<i>Rattus norvegicus</i>	No observations; exotic possible to occur
#house mouse	<i>Mus musculus</i>	Rare in park; exotic last observed in 1968
*meadow jumping mouse	<i>Zapus hudsonius</i>	Uncommon in most draws and riparian areas
#porcupine	<i>Erethizon dorsatum</i>	Common in park; frequently seen at night

Hares and Rabbits

?white-tailed jackrabbit	<i>Lepus townsendii</i>	Rare in park grasslands
black-tailed jackrabbit	<i>Lepus californicus</i>	No recorded observation; possible to occur
#eastern cottontail	<i>Sylvilagus floridanus</i>	Common in woodlands near Visitor's Center
*mountain cottontail	<i>Sylvilagus nuttallii</i>	No recorded observation; possible above 4,500ft
*desert cottontail	<i>Sylvilagus audubonii</i>	Common in arid grasslands and prairie dog towns

Even-toed Hoofed Mammals

#elk	<i>Cervus elaphus</i>	Abundant; difficult to observe; reintroduced 1914
#mule deer	<i>Odocoileus hemionus</i>	Common in park; often observed
#white-tailed deer	<i>Odocoileus virginianus</i>	Common in park; often observed
#pronghorn	<i>Antilocapra americana</i>	Uncommon in the park; reintroduced in 1914
#bison	<i>Bison bison</i>	Abundant in the park; reintroduced in 1913

Common and scientific names are taken from: Higgins, K. F., E. D. Stukel, J. M. Goulet, and D. C. Backlund. 2000. Wild Mammals of South Dakota. South Dakota Department of Game, Fish, and Parks. Pierre. 278pp.