MAMMALS OF WUPATKI NATIONAL MONUMENT

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Wupatki National Monument lies in a corner of the Great Basin Desert often called the Navajoan Desert, because of the presence of the Navajo Nation in this area. As the name "desert" implies, the climate of the monument, situated in the rain shadow of the San Francisco Peaks, constantly challenges and sharpens the survival skills of the animals living here.

The most common mammals of the area are, not surprisingly, the rodents. Their small size, ground dwelling habits, and resulting lack of mobility make them especially susceptible to the extremes of temperature and lack of standing water characteristic of deserts. Consequently, they have evolved a very efficient life style. While they will not shun water if available, most desert rodents do not need a source of drinking water. They rely instead on the moisture in their food for their metabolic needs. They avoid the searing dry heat of the day by spending it in the shade of underground burrows, and couple this with extreme conservation of water in urine and feces. The humidity of their burrows has been measured at several times that of the atmosphere, while underground temperatures can be as much as 30° degrees cooler than ambient temperature.

The Great Basin Desert, hot and dry in the summer, is a high plains desert, and can be very cold in the winter, occasionally disappearing under a thin blanket of snow. To survive this extreme range of yearly temperatures, most small mammals sleep or hibernate through the winter, waking only occasionally to feed on stored caches of food.

Unfortunately, the park visitor has little chance of seeing these highly adapted Creatures, except in a second-hand manner. Evidence of nocturnal forays into granola bags and backpacks, or missing shoe laces stolen by an avaricious packrat are often viewed as mixed blessings!

However, the observant and patient visitor can catch glimpses of some of the larger, diurnal (active in the daytime) mammals. The black-tailed jackrabbit can often be seen bounding away on his zig-zag course. The jackrabbit is not really a "rabbit," but is a "hare." Jackrabbits are born with hair, and with eyes open, whereas "bunnies" are blind and hairless at birth, to cite one of the differences.

In the early morning, the visitor can sometimes see a herd of pronghorn antelope in the grassy areas of the monument. The pronghorn, recognized by a brilliant white rump patch, is unique among mammals in that it has a horn, not an antler, but it sheds its horn every year. Most horned mammals, like cows, only get one set per lifetime.

Around the Visitor Center, one might see a whitetail antelope squirrel. If he spots you eyeing him he will freeze and wiggle his white tail at you, which he carries over his back. Presumably, this quivering white patch serves to break up the animal's outline, so that a predator, such as a soaring hawk, cannot recognize it as the body of a equirrel.

Desert mammals are generally paler in color than their relatives of milder climates and are usually very secretive in their habits. This is due to the sparcity of cover in the desert, and due to their habit of conserving energy in the heat of the day. But with careful observation, the visitor can be rewarded with a glimpse of these creatures, and can marvel at their ability to survive in this beautiful but harsh land. (tentative list -

Order Artiodactyla Family Cervidae

Family Antelocapridae

Order Carnivora

Family Mustelidae

Family Canidac

Family Pelidae

Order Lagomorph Family Leporidae

Order Rodentai Family Erethizontidae

Family Sciuridae- Squirrels

Family Geomyidae

Order Rondentia Family Heteromyidae

Family Cricetidae - woodrats

Order Chiroptera - Bats Family Vespertilionidae - Plainose

Family Molossidae

Order Insectivora Family Soricidae Mule deer (Odocoileus hemionus)

Pronghorn (Antilocapra americana)

Longtail weasel (Mustella frenate) Striped skunk (Mephitis mephitis) Spotted skunk (Spilogale gracilis) Badger (Taxidea taxis)

Grey fox (Urocyon cinereoargenteus) Coyote (Canis latrans)

Bobcat (Lynx rufus) Couger (Felis concolor)

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Black tail jackrabbit (Lepus californicus) Desert cottontail (Sylvilagus auduboni)

Porcupine (Erethizon dorsatum)

Rock Squirrel (Spermiphilus variegat Whitetail antelope groung Squirrel (Amospermiphilus leucurus) Spotted ground squirrel (Spermiphilus spilosoma) Whitetail prairie dog (Cynomys gunnisoni)

Pocket gopher (Thomomys bottae)

Pocket mouse (Perognathus spp.) (lavus, apache,amplus,intermedius Kangaroo rat (Dipodomys ordi)

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Grasshopper mouse (Onychomys leucogaster) Harvest mouse (Reithrodontomys megalotus) Deer Mouse (Peromiscus maniculatus) Canyon mouse (P. crinnitus) Brush mouse (P. boylei) Mexican woodrat (Neotoma Mexicana) Whitethroat woodrat (N. albigula) Desert woodrat (N. stephensi)

Myotis (Myotis spp.) Pipistrel (Pipistrellus spp.)

Freetail bats (Taridia spp.)

Shrew (Sorex merriami) Desert shrew (Notiosorex crawfordi)