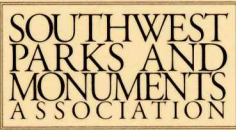


| Common Name                              | Scientific Name                 | Habitat                 |
|------------------------------------------|---------------------------------|-------------------------|
| <b>CARNIVORES (CARNIVORA)</b>            |                                 |                         |
| <b>DOGS (CANIDAE)</b>                    |                                 |                         |
| Coyote                                   | <i>Canis latrans</i>            | grasslands              |
| Gray Fox                                 | <i>Urocyon cinereoargenteus</i> | broken country/woodland |
| Kit Fox                                  | <i>Vulpes masrotis</i>          | mixed-conifer           |
| <b>BEARS (URSIDAE)</b>                   |                                 |                         |
| Black Bear                               | <i>Ursus americanus</i>         | forests                 |
| <b>RACCOONS (PROCYONIDAE)</b>            |                                 |                         |
| Raccoon                                  | <i>Procyon lotor</i>            | woodland/rock cliffs    |
| Ringtail                                 | <i>Bassariscus astutus</i>      | cliffs, grasslands      |
| <b>WEASELS &amp; SKUNKS (MUSTELIDAE)</b> |                                 |                         |
| Badger                                   | <i>Taxidea taxus</i>            | grasslands              |
| Hognose Skunk                            | <i>Conepatus leuconotus</i>     | rocky/brushy/woodland   |
| Long-tailed Weasel                       | <i>Mustela frenata</i>          | all habitats/near water |
| Short-tailed Weasel                      | <i>Mustela erminea</i>          | rushy or wooded areas   |
| Spotted Skunk                            | <i>Spilogale putorius</i>       | grass/shrub             |
| Striped Skunk                            | <i>Mephitis mephitis</i>        | all habitats            |
| <b>CATS (FELIDAE)</b>                    |                                 |                         |
| Bobcat                                   | <i>Lynx rufus</i>               | all habitats            |
| Mountain Lion                            | <i>Felis concolor</i>           | broken terrian          |



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| Common Name                          | Scientific Name                 | Habitat                    |
|--------------------------------------|---------------------------------|----------------------------|
| <b>HOOFED MAMMALS (ARTIODACTYLA)</b> |                                 |                            |
| <b>DEER (CERVIDAE)</b>               |                                 |                            |
| Elk                                  | <i>Cervus canadensis</i>        | montane grass              |
| Mule Deer                            | <i>Odocoileus hemionus</i>      | open terrian,shrub         |
| <b>PRONGHORN (ANTILOCAPRIDAE)</b>    |                                 |                            |
| Pronghorn                            | <i>Antilocapra americana</i>    | open grassland             |
| <b>AMPHIBIANS (AMPHIBIA)</b>         |                                 |                            |
| Tiger Salamander                     | <i>Ambystoma tigrinum</i>       | playas, ponds              |
| Couch's Spadefoot Toad               | <i>Scaphiopus couchii</i>       | playas, ponds              |
| Plains Spadefoot Toad                | <i>Spea bombifrons</i>          | playas, ponds              |
| New Mexico Spadefoot Toad            | <i>Scaphiopus multiplicatus</i> | playas, ponds              |
| Western Spadefoot Toad               | <i>Scaphiopus hammondi</i>      | playas, ponds              |
| Great Plains Toad                    | <i>Bufo cognatus</i>            | grasslands                 |
| Red-spotted Toad                     | <i>Bufo punctatus</i>           | rocky areas                |
| Woodhouse's Toad                     | <i>Bufo woodhousii</i>          | sandy areas                |
| Canyon Treefrog                      | <i>Hyla arenicolor</i>          | arroyos,grasslands         |
| Chorus Frog                          | <i>Pseudacris triseriata</i>    | grassland,pools, woodlands |
| Northern Leopard Frog                | <i>Rana pipiens</i>             | ponds, permanent water     |
| <b>REPTILES (REPTILIA)</b>           |                                 |                            |
| Collared Lizard                      | <i>Crotaphytus collaris</i>     | rocky areas                |
| Eastern Fence Lizard                 | <i>Sceloporus undulatus</i>     | all habitats               |
| Lesser Earless Lizard                | <i>Holbrookia maculata</i>      | sandy washes               |
| Northern Sagebrush Lizard            | <i>Sceloporus graciosus</i>     | piñon/juniper/woodland     |
| Roundtail Horned Lizard              | <i>Phrynosoma modestum</i>      | sandy areas                |

| Common Name                | Scientific Name                   | Habitat                  |
|----------------------------|-----------------------------------|--------------------------|
| Short-horned Lizard        | <i>Phrynosoma douglasii</i>       | fine, loose sand         |
| Side-blotched Lizard       | <i>Uta stansburiana</i>           | all habitats             |
| Tree Lizard                | <i>Urosaurus ornatus</i>          | trees                    |
| Checkered Whiptail         | <i>Cnemidophorus grahami</i>      | piñon/juniper woodland   |
| Chihuahuan Whiptail        | <i>Cnemidophorus exsanguis</i>    | canyon bottom, oak       |
| Little Striped Whiptail    | <i>Cnemidophorus inornatus</i>    | grassland, piñon/juniper |
| New Mexico Whiptail        | <i>Cnemidophorus neomexicanus</i> | grass/shrub, playas      |
| Plateau Striped Whiptai    | <i>Cnemidophorus velox</i>        | piñon/juniper woodland   |
| Great Plains Skink         | <i>Eumeces obsoletus</i>          | shrub                    |
| Variable Skink             | <i>Eumeces multivirgatus</i>      | near water               |
| Black-necked Garter Snake  | <i>Thamnophis cyrtopsis</i>       | rocky, water             |
| Coachwhip                  | <i>Masticophis flagellum</i>      | all habitats             |
| Gopher Snake               | <i>Pituophis melanoleucus</i>     | all habitats             |
| Milk Snake                 | <i>Lampropeltis triangulum</i>    | all habitats             |
| Night Snake                | <i>Hypsiglena torquata</i>        | rocky/water/sandy        |
| Mountain Patch-nosed Snake | <i>Salvadora grahamiae</i>        | rocky canyons            |
| Ringneck Snake             | <i>Diadophis punctatus</i>        | water/mountains          |
| Striped Whipsnake          | <i>Masticophis taeniatus</i>      | piñon/juniper            |
| Wandering Garter Snake     | <i>Thamnophis elegans</i>         | habitats near water      |
| Black-tailed Rattlesnake   | <i>Crotalus molossus</i>          | rocky slopes/mts.        |
| Western Diamondback        | <i>Crotalus atrox</i>             | plains/mts.habitats      |
| Western Rattlesnake        | <i>Crotalus viridis</i>           | rocky/talus slopes       |

# A CHECKLIST OF THE FAUNA OF EL MALPAIS NATIONAL MONUMENT

COMPILED BY ROBERT W. ALEXANDER



NEW MEXICO

PUBLISHED BY SOUTHWEST PARKS AND MONUMENTS ASSOCIATION

221 NORTH COURT, TUCSON, ARIZONA 85701

El Malpais National Monument, more than 114,000 acres in size, is best known for its geologic and volcanic formations. Despite the rugged terrain and lack of surface water, a variety of animal species make their home in the badlands. This listing is the most up to date as of September 1996.

This report was completed by Robert W. Alexander from observations and compiling the data from previous publications and Monument inventories.

The dominant vegetative type classes used to identify habitats in the El Malpais area are as follows:

**Lava:** This class is not bare lava but is characterized by ponderosa pine, piñon pine, juniper species and shrubs scattered over the surface. On the lava, trees tend to be stunted.

**Grass/shrub:** Characterized by blue grama in sod habitat interspersed with forbs, mixed grasses, and shrubs.

**Shrub/conifer:** This class is typified by open mixed conifer with a grass, shrub understory. Open shrub grass meadows intersperse with the mixed conifer areas forming mosaic. Elevations start at 6,800 feet advancing to over 8,000 feet.

**Mixed conifer:** Very similar to the shrub/conifer class but the areas covered by trees are proportionately thicker growth and larger than the meadows interspersed between tree patches.

**Piñon/juniper woodland:** Characterized by a thick growth of mature to nearly decayed trees. This class is patchy with very small areas represented in the area.

**Deciduous:** Characterized by stands of oaks, and groves of aspens. Like piñon/juniper class, this class represents a very small area.

**Ponderosa parkland:** This class is typified by large, mature (more than fifty years old) ponderosa pine standing widely separated in grassy meadows.

| Common Name                     | Scientific Name                      | Habitat                     |
|---------------------------------|--------------------------------------|-----------------------------|
| BATS (CHIROPTERA)               |                                      |                             |
| EVENING BATS (VESPERTILIONIDAE) |                                      |                             |
| Big Brown Bat                   | <i>Eptesicus fuscus</i>              | ponderosa/piñon/<br>juniper |
| California Myotis               | <i>Myotis californicus</i>           | crevice dweller             |
| Cave Myotis                     | <i>Myotis velifer</i>                | caves/mine tunnels          |
| Fringed Myotis                  | <i>Myotis thysanodes</i>             | ponderosa/grass             |
| Hoary Bat                       | <i>Lasiurus cinerius</i>             | woodland                    |
| Little Brown Myotis             | <i>Myotis lucifugus</i>              | permanent water             |
| Long-eared Myotis               | <i>Myotis evotis</i>                 | ponderosa                   |
| Long-legged Myotis              | <i>Myotis volans</i>                 | ponderosa/grass             |
| Pallid Bat                      | <i>Antrozous pallidus</i>            | grass/rocky                 |
| Silver-haired Bat               | <i>Lasconycteris<br/>noctivagans</i> | migratory                   |
| Small-footed Myotis             | <i>Myotis subulatus</i>              | ponderosa/spruce/fir        |
| Spotted Bat                     | <i>Euderma maculatum</i>             | arid country                |
| Western<br>Big-eared Bat        | <i>Plecotis townsendi</i>            | hibernation                 |
| Western<br>Pipistrelle Bat      | <i>Pipistrellus hesperus</i>         | cliffs/grassland            |
| Yuma Myotis                     | <i>Myotis yumanensis</i>             | arid areas/caves            |
| FREETAILED BATS (MOLOSSIDAE)    |                                      |                             |
| Big Freetail Bat                | <i>Tadarida macrotis</i>             | caves/crevices in<br>cliffs |
| Mexican Freetail Bat            | <i>Tadarida brasiliensis</i>         | grass/piñon juniper         |
| INSECT EATERS (INSECTIVORA)     |                                      |                             |
| SHREWS (SORICIDAE)              |                                      |                             |
| Desert Shrew                    | <i>Notiosorex crawfordi</i>          | grass/shrub                 |
| Dusky Shrew                     | <i>Sorex monticolus</i>              | mixed conifer               |
| Dwarf Shrew                     | <i>Sorex nanus</i>                   | mixed conifer               |

| Common Name                     | Scientific Name                      | Habitat                   |
|---------------------------------|--------------------------------------|---------------------------|
| RABBITS AND HARES (LAGOMORPHA)  |                                      |                           |
| RABBITS AND HARES (LEPORIDAE)   |                                      |                           |
| Black-tailed<br>Jackrabbit      | <i>Lepus californicus</i>            | grass/shrub               |
| Desert Cottontail               | <i>Sylvilagus auduboni</i>           | piñon/juniper<br>woodland |
| Eastern Cottontail              | <i>Sylvilagus floridanus</i>         | shrub/conifer             |
| Mountain Cottontail             | <i>Sylvilagus nuttallii</i>          | shrub/conifer             |
| RODENTS (RODENTIA)              |                                      |                           |
| SQUIRRELS (SCIURIDAE)           |                                      |                           |
| Cliff Chipmunk                  | <i>Eutamias dorsalis</i>             | piñon/juniper<br>woodland |
| Colorado Chipmunk               | <i>Eutamias quadrivittatus</i>       | mixed conifer             |
| Red Squirrel                    | <i>Tamiasciurus hudsonicus</i>       | ponderosa                 |
| Rock Squirrel                   | <i>Citellus variegatus</i>           | broken terrain<br>juniper |
| Spotted<br>Ground Squirrel      | <i>Citellus spilosoma</i>            | shrub/conifer             |
| Tassel-eared Squirrel           | <i>Sciurus aberti</i>                | ponderosa                 |
| Whitetail Prairie Dog           | <i>Cynomys gunnisoni</i>             | grass meadows             |
| Whitetail Antelope<br>Squirrel  | <i>Ammospermophilus<br/>leucurus</i> | piñon/juniper<br>woodland |
| POCKET GOPHERS (GEOMYIDAE)      |                                      |                           |
| Botta's Pocket<br>Gopher        | <i>Thomomys bottae</i>               | suitable soils            |
| Northern Pocket<br>Gopher       | <i>Thomomys talpoides</i>            | grass, ponderosa          |
| POCKET MICE/RATS (HETEROMYIDAE) |                                      |                           |
| Apache<br>Pocket Mouse          | <i>Perognathus apache</i>            | piñon/juniper<br>woodland |
| Bannertail                      | <i>Dipodomys spectabilis</i>         | grassland                 |
| Kangaroo Rat                    |                                      |                           |

| Common Name                        | Scientific Name                      | Habitat                      |
|------------------------------------|--------------------------------------|------------------------------|
| Ord's Kangaroo Rat                 | <i>Dipodomys ordii</i>               | suitable soils               |
| Plains Pocket Mouse                | <i>Perognathus flavescens</i>        | sandy grassland              |
| Rock Pocket Mouse                  | <i>Perognathus intermedius</i>       | old lava flows               |
| Silky Pocket Mouse                 | <i>Perognathus flavus</i>            | grass,open<br>piñon/juniper  |
| NEW WORLD MICE & RATS (CRICETIDAE) |                                      |                              |
| Brush Mouse                        | <i>Peromyscus boylei</i>             | shrub, rocky soils           |
| Deer Mouse                         | <i>Peromyscus maniculatus</i>        | ponderosa/shrub              |
| Long-tailed Vole                   | <i>Microtus longicaudus</i>          | streambank/<br>mt.meadows    |
| Meadow Vole                        | <i>Microtus pennsylvanicus</i>       | grass-sedge/water            |
| Mexican Vole                       | <i>Microtus mexicanus</i>            | ponderosa/<br>mt.meadows     |
| Mexican Woodrat                    | <i>Neotoma mexicana</i>              | rocks/cliffs                 |
| Northern<br>Grasshopper Mouse      | <i>Onychomys leucogaster</i>         | sandy grassland              |
| Piñon Mouse                        | <i>Peromyscus truei</i>              | piñon/juniper<br>woodland    |
| Rock Mouse                         | <i>Peromyscus difficilis</i>         | piñon/<br>juniper oak-rubble |
| Southern<br>Plains Woodrat         | <i>Neotoma micropus</i>              | rocky foothills              |
| Stephen's Woodrat                  | <i>Neotoma stephensi</i>             | rock-piñon/juniper           |
| Western<br>Harvest Mouse           | <i>Reithrodontomys<br/>megalotis</i> | all habitats                 |
| White-footed Mouse                 | <i>Peromyscus leucopus</i>           | piñon/juniper<br>woodland    |
| White-throated<br>Woodrat          | <i>Neotoma albigula</i>              | all habitats                 |
| PORCUPINES (ERETHIZONDORSATUM)     |                                      |                              |
| Porcupine                          | <i>Erethizon dorsatum</i>            | woodland                     |