

- Hall, E. R., 1936, Mustelid mammals from the Pleistocene of North America: Carnegie Institution of Washington, Publication 473, p. 41—119.
- Hargrave, L. L. and Emslie, S. D., 1980, Passenger pigeon bones from archaeological sites in New Mexico: Contributions to Science, Natural History Museum of Los Angeles County, no. 330, p. 257-260.
- Harris, A. H., 1970, The Dry Cave mammalian fauna and late pluvial conditions in southeastern New Mexico: Texas Journal of Science, v. 22, p. 3—27.
- Harris, A.H., 1977, Wisconsin age environments in the northern Chihuahuan Desert: evidence from the higher vertebrates; in Wauer, R. H. and Riskind, D. H., eds., Transactions of the Symposium on the Biological Resources of the Chihuahuan Desert Region, United States and Mexico: National Park Service Transactions and Proceedings, series 3, p. 23-52.
- Harris, A. H., 1980, The paleoecology of Dry Cave, New Mexico: National Geographic Society Research Reports, v. 12, p. 331-338.
- Harris, A. H., 1984a, *Neotoma* in the late Pleistocene of New Mexico and Chihuahua; in Genoways, H. H. and Dawson, M. R., eds., Contributions in Quaternary Vertebrate Paleontology: A Volume in Memorial to John E. Guillarday: Carnegie Museum Natural History, Special Publication, no. 8, p. 164—178.
- Harris, A. H., 1984b, Two new species of late Pleistocene woodrats (Cricetidae: *Neotoma*) from New Mexico: Journal of Mammalogy, v. 65, p. 560—566.
- Harris, A. H., 1985a, Late Pleistocene vertebrate paleoecology of the West: Austin, University of Texas Press, 293 p.
- Harris, A. H., 1985b, Preliminary report on the vertebrate fauna of U-Bar Cave, Hidalgo County, New Mexico: New Mexico Geology, v. 7, p. 74—77, 84.
- Harris, A. H., 1987, Reconstruction of Mid-Wisconsin environments in southern New Mexico: National Geographic Research, v.3, p. 142-151.
- Harris, A. H., 1988, Late Pleistocene and Holocene *Microtus* (*Pitymys*) (Rodentia: Cricetidae) in New Mexico: Journal of Vertebrate Paleontology, v. 8, p. 307-313.
- Harris, A. H., 1989, The New Mexican late Wisconsin—east versus west: National Geographic Research, v. 5, p. 205—217.
- Harris, A. H., 1990a, Fossil evidence bearing on southwestern mammalian biogeography: Journal of Mammalogy, v. 71, p. 219—229.
- Harris, A. H., 1990b, Taxonomic status of the Pleistocene ringtail *Bassariscus sonoiensis* (Carnivora): Southwestern Naturalist, v. 35, p. 343—346.
- Harris, A. H., 1991, Preliminary report on the fauna of Pendejo Cave, Otero County, New Mexico: Current Research in the Pleistocene, y. 8, p. 92—93.
- Harris, A. H. and Carraway, L. N., 1993, *Sorex preblei* from the late Pleistocene of New Mexico: Southwestern Naturalist, v. 38, p. 56-58.
- Harris, A. H. and Crews, C. R., 1983, Conkling's roadrunner—a subspecies of the California roadrunner?: Southwestern Naturalist, v. 28, p. 407-412.
- Harris, A. H. and Findley, J. S., 1964, Pleistocene—Recent fauna of the Isleta Caves, Bernalillo County, New Mexico: American Journal of Science, v. 262, p. 114-120.
- Harris, A. H. and Mundel, P., 1974, Size reduction in bighorn sheep (*Ovis canadensis*) at the close of the Pleistocene: Journal of Mammalogy, v. 55, p. 678-680.
- Harris, A. H. and Porter, L. S. W., 1980, Late Pleistocene horses of Dry Cave, Eddy County, New Mexico: Journal of Mammalogy, v. 61, p. 46—65.
- Harris, A. H., Smartt, R. A. and Smartt, W. R., 1973, *Cryptotis parva* from the Pleistocene of New Mexico: Journal of Mammalogy, v. 54, p. 512—513.
- Hay, O. P., 1924, The Pleistocene of the middle region of North America and its vertebrated animals: Carnegie Institution of Washington, Publication 322a, 385 p.
- Hay, O. P., 1927, The Pleistocene of the western region of North America and its vertebrated animals: Carnegie Institution of Washington, Publication 322b, 346 p.
- Hay, O. P. and Cook, H. J., 1930, Fossil vertebrates collected near, or in association with, human artifacts at localities near Colorado, Texas, Frederick, Oklahoma, and Folsom, New Mexico: Proceedings of the Colorado Museum of Natural History, v. 9, p. 1-40.
- Haynes, C. V., Jr. and Agogino, G. A., 1966, Prehistoric springs and geochronology of the Clovis site, New Mexico: American Antiquity, v. 31, p. 812-821.
- Hester, J. J., 1960, Late Pleistocene extinction and radiocarbon dating: American Antiquity, y. 26, p. 58—77.
- Hester, J. J., 1967, The agency of man in animal extinctions; in Martin, P. S. and Wright, H. E., Jr., eds., Pleistocene Extinctions, the Search for a Cause: New Haven, Yale University Press, p. 169—192.
- Hester, J. J., 1972, Blackwater Locality No. 1. A stratified early man site in eastern New Mexico: Fort Burgwin Research. Center Publication no. 8, p. 1-239.
- Hibben, F. C., 1941, Evidences of early occupation in Sandia Cave, New Mexico, and other sites in the Sandia—Manzano region: Smithsonian Miscellaneous Collections, v. 99, no. 23, p. 1—64.
- Hill, C. A. and Gillette, D. D., 1985, Bones of the Pleistocene ground sloth *Nothotheriops* in Carlsbad Cavern, New Mexico: Annual Report, Cave Research Foundation, p. 27.
- Hill, C. A. and Gillette, D. D., 1987, A uranium series date for the Shasta ground sloth, *Nothotheriops shastensis*, from Carlsbad Cavern, New Mexico: Journal of Mammalogy, v. 68, p. 718-719.
- Holman, J. A., 1970, A Pleistocene herpetofauna from Eddy County, New Mexico: Texas Journal of Science, v. 22, p. 29—39.
- Howard, H., 1931a, A new species of road-runner from Quaternary cave deposits in New Mexico: Condor, v. 33, p. 206-209.
- Howard, H., 1931b, *Cryptoglaux funerea* in New Mexico: Condor, v. 33, p. 216.
- Howard, H., 1962, Bird remains from a prehistoric cave deposit in Grant County, New Mexico: Condor, v. 64, p. 241—242.
- Howard, H., 1964, A new species of the "pigmy goose," *Anabemicula*, from the Oregon Pleistocene, with a discussion of the genus: American Museum Novitates, no. 2200, p. 1-14.
- Howard, H., 1968, Limb measurements of the extinct vulture, *Coragyps occidentalis*; in Schroeder, A. H., ed., Collected Papers in Honor of Lyndon Lane Hargrave: Papers of the Archaeological Society of New Mexico 1, p. 115—128.
- Howard, H., 1971, Quaternary avian remains from Dark Canyon Cave, New Mexico: Condor, v. 73, p. 237—240.
- Howard, H. and Miller, A. H., 1933, Bird remains from cave deposits in New Mexico: Condor, v. 35, p. 15-18.
- Howell, A.H., 1915, Revision of the American marmots: North American Fauna, no. 37, p. 1—80.
- Johnson, E., 1986, Late Pleistocene and early Holocene vertebrates and paleoenvironments on the Southern High Plains, U.S.A.: Geographie physique et Quaternaire, v. 40, no. 3, p. 249—261.
- Kelley, V. C. and Northrop, S. A., 1975, Geology of Sandia Mountains and vicinity, New Mexico: New Mexico Bureau of Mines & Mineral Resources, Memoir 29, 136 p.
- Kues, B. S., 1982, Fossils of New Mexico: Albuquerque, University of New Mexico Press, 226 p.
- Kues, B. S. and Northrop, S. A., 1981, Bibliography of New Mexico paleontology: Albuquerque, University of New Mexico Press, 150 p.
- Kurten, B., 1975, A new Pleistocene genus of American mountain deer: Journal of Mammalogy, v. 56, p. 507—508.
- Kurten, B. and E. Anderson, 1980, Pleistocene mammals of North America: New York, Columbia University Press, 442 p.
- Lambert, M. F. and Ambler, J. R., 1961, A survey and excavation of caves in Hidalgo County, New Mexico: School of American Research, Monograph, v. 25, p. 1-107.
- Lambert, P. W., 1968, Quaternary stratigraphy of the Albuquerque area, New Mexico [Ph.D. dissertation]: Albuquerque, University of New Mexico, 329 p.
- Lambert, P. W., 1970, Quaternary stratigraphy of the Albuquerque area, New Mexico: New Mexico Geological Society, Guidebook 21, p. 160.
- Lawrence, B., 1960, Fossil *Tadarida* from New Mexico: Journal of Mammalogy, v. 41, p. 320—322.
- Logan, L. E., 1981, The mammalian fossils of Muskoxx Cave, Eddy County, New Mexico; in Beck, B. F., ed., Proceedings of the Eighth International Congress of Speleology, v. I, p. 159-160.
- Logan, T. R., 1984, Early Irvingtonian (early Pleistocene) mammals from the upper part of the Santa Fe Group, Albuquerque—Belen basin, central New Mexico: Geological Society of America, Abstracts with Programs, v. 16, p. 245.
- Logan, T. R., Lucas, S. G. and Sobus, J. C., 1984, Blancan—Irrvingtonian boundary in the Ceja Member of the Santa Fe Formation, Tijeras Arroyo, Albuquerque area, New Mexico: New Mexico Geology, v. 6, p. 14.
- Lucas, S. G., 1988, The "Deming dinosaur" was a mammoth: New Mexico Geological Society, Guidebook 39, p. 12—13.
- Lucas, S. G. and Effinger, J. A., 1991, *Mammuthus* from Lincoln County and a review of the mammoths from the Pleistocene of New Mexico: New Mexico Geological Society, Guidebook 42, p. 277—282.
- Lucas, S. G. and Logan, T. R., 1984, Pleistocene horse from the Albuquerque area, New Mexico: New Mexico Journal of Science, v. 24, p. 29—32.
- Lucas, S. G., Williamson, T. E. and Sobus, J. C., 1988, Late Pleistocene (Rancholabrean) mammals from the Edith Formation, Albuquerque, New Mexico: New Mexico Journal of Science, v. 28, p. 51—58.
- Lull, R. S., 1929, A remarkable ground sloth: Memoir of the Peabody Museum of Yale University, v. 3, pt. 2, p. i-x + 1-39.
- Lundelius, E. L., Jr., 1972, Vertebrate remains from the gray sand; in Hester,

- J. J., ed., Blackwater Locality No. I. A Stratified Early Man Site in Eastern New Mexico: Fort Burgwin Research Center, Publication no. 8, p. 1-238.
- Lyman, R. L., 1983, Prehistoric extralimital records for *Pappogeomys castanops* (Geomyidae), in northwestern New Mexico: Journal of Mammalogy, v. 64, p. 502-505.
- Magish, D. P. and Harris, A. H., 1976, Fossil ravens from the Pleistocene of Dry Cave, Eddy County, New Mexico: Condor, v. 78, p. 399-404.
- Martin, P. S. and Guilday, J. E., 1967, A bestiary for Pleistocene biologists; in Martin, P. S. and Wright, H. E., Jr., eds., Pleistocene Extinctions, the Search for a Cause: New Haven, Yale University Press, p. 1-62.
- McDonald, J. N., 1981, North American bison, their classification and evolution: Berkeley, University of California Press, 316 p.
- McDonald, J. N. and Ray, C. E., 1989, The autochthonous North American musk oxen *Bootherium*, *Symbos*, and *Gidleya* (Mammalia: Artiodactyla: Bovidae): Smithsonian Contributions to Paleobiology, no. 66, 77 p.
- McMullen, T. L. and Zakrzewski, R. J., 1972, A new Late Pleistocene fauna from northeastern New Mexico: New Mexico Geological Society, Guidebook 23, p. 134-136.
- Miller, A. H., 1932, An extinct icterid from Shelter Cave, New Mexico Auk, v. 49, p. 38-41.
- Miller, R. R., 1982, First fossil record (Plio-Pleistocene) of threadfin shad, *Dorosoma petenense*, from the Gatuna Formation of southeastern New Mexico: Journal of Paleontology, v. 56, p. 423-425.
- Moodie, K. B. and Van Devender, T. R., 1979, Extinction and extirpation in the herpetofauna of the Southern High Plains with emphasis on *Geochelone wilsoni* (Testudinidae): Herpetologica, v. 35, p. 198-206.
- Murray, K. F., 1957, Pleistocene climate and the fauna of Burnet Cave, New Mexico: Ecology, v. 38, p. 129-132.
- Needham, C. E., 1936, Vertebrate remains from Cenozoic rocks: Science, v. 84, p. 537.
- Nowak, R. M., 1979, North American Quaternary *Canis*: Monograph of the Museum of Natural History. University of Kansas, no. 9, p. 1-154.
- O'Neill, F. M., 1992, Paleo-Indians in the San Juan Basin: A paleontological perspective: New Mexico Geological Society, Guidebook 43, p. 333-339.
- O'Neill, F. M. and Rigby, J. K., 1982, A rare fossil skeleton of *Camelops* from Pleistocene deposits near Albuquerque: New Mexico Geological Society, Guidebook 33, p. 82-84.
- Page, L. M. and B. M. Burr, 1991, A field guide to freshwater fishes: Boston, Houghton Mifflin Co., 432 p.
- Ratkevich, R. P. and Pope, W. T. S., 1975, Ice age animals of the Rio Grande Valley: Albuquerque, Natural Sales Ltd., 24 p.
- Ray, C. E., Linares, O. J. and Morgan, G. S., 1988, Paleontology; in Greenhall, A. M. and Schmidt, U., eds., Natural History of Vampire Bats: Boca Raton, CRC Press, p. 19-30.
- Rea, A. M., 1973, The scaled quail (*Callipepla squamata*) of the Southwest: systematic and historical consideration: Condor, v. 75, p. 322-329.
- Rea, A. M., 1980, Late Pleistocene and Holocene turkeys in the Southwest: Contributions in Science, Natural History Museum of Los Angeles County, no. 330, p. 209-224.
- Rickart, E. A., 1977, Pleistocene lizards from Burnet and Dark Canyon caves, Guadalupe Mountains, New Mexico: Southwestern Naturalist, v. 21, p. 519-522.
- Riley, R., 1984, Stratigraphic facies analysis of the upper Santa Fe Group, Fort Hancock and Camp Rice formations, Far West Texas and south-central New Mexico [M.S. thesis]: El Paso, University of Texas at El Paso, 109 p.
- Roberts, F. H. H., 1942, Archaeological and geological investigations in the San Jon district, eastern New Mexico: Smithsonian Miscellaneous Collections, v. 103, 30 p.
- Russell, B. D. and Harris, A. H., 1986, A new leporine (Lagomorpha: Leporidae) from Wisconsinan deposits of the Chihuahuan Desert: Journal of Mammalogy, v. 67, p. 632-639.
- Russell, R. J., 1968, Evolution and classification of the pocket gophers of the subfamily Geomyinae: University of Kansas Publications, Museum of Natural History, v. 16, p. 473-579.
- Scarborough, L. L. M., 1986, Zooarchaeological investigation of climatic change at Bat Cave, San Agustin Plains, Catron County, New Mexico [M.S. thesis]: El Paso, University of Texas at El Paso, 149 p.
- Schultz, C. B. and Howard, E. B., 1935, The fauna of Burnet Cave, Guadalupe Mountains, New Mexico: Proceedings of the Academy of Natural Sciences of Philadelphia, v. 87, p. 273-298.
- Simmons, A. H., Betancourt, J. L., Donaldson, M. L., Fredlund, G., Gillespie, W. B. and Weston, T., 1984, Archaic prehistory and paleoenvironments in the San Juan Basin, New Mexico: the Chaco shelters project: University of Kansas Museum of Anthropology, Project Report Series no. 53, 250 p.
- Simpson, G. G., 1963, A new record of *Euceratherium* or *Preptoceras* (extinct Bovidae) in New Mexico: Journal of Mammalogy, v. 44, p. 583-584.
- Slaughter, B. H., 1975, Ecological interpretation of the Brown Sand Wedge local fauna; in Wendorf, F. and Hester J. J., eds., Late Pleistocene Environments of the Southern High Plains: Fort Burgwin Research Center, Publication no. 9, p. 179-192.
- Smartt, R. A., 1977, The ecology of Late Pleistocene and Recent *Microtus* from south-central and southwestern New Mexico: Southwestern Naturalist, v. 22, p. 1-19.
- Smartt, R. A. and Hafner, D. J., 1989, Preliminary report on a late Pleistocene microfauna from Whut Cave, Cibola County, New Mexico: New Mexico Geological Society, Guidebook 40, p. 281-285.
- Smartt, R. A., Hafner, D. J. and Lucas, S. G., 1990, A bighorn sheep, *Ovis canadensis*, from the late Pleistocene of Mesa del Oro, Cibola County, New Mexico: Texas Journal of Science, v. 42, p. 107-109.
- Smartt, R. A., Lucas, S. G. and Hafner, D. J., 1991, The giant bison (*Bison latifrons*) from the Middle Rio Grande Valley of New Mexico: Southwestern Naturalist, v. 36, p. 136-137.
- Steadman, D. W., 1980, A review of the osteology and paleontology of turkeys (Aves: Meleagridinae): Contributions in Science, Natural History Museum of Los Angeles County, no. 330, p. 131-207.
- Stearns, C. E., 1942, A fossil marmot from New Mexico and its climatic significance: American Journal of Science, v. 240, p. 867-878.
- Stock, C., 1930, Quaternary antelope remains from a second cave deposit in the Organ Mountains, New Mexico: Los Angeles Museum, Science series no. 2, Paleontology no. 2, p. 1-18.
- Stock, C., 1932, A further study of the Quaternary antelopes of Shelter Cave, New Mexico: Los Angeles Museum, Science series no. 3, Paleontology no. 3, p. 1-45.
- Stock, C. and Bode, F. D., 1936, The occurrence of flints and extinct animals in pluvial deposits near Clovis, New Mexico. Part III. Geology and vertebrate paleontology of the late Quaternary near Clovis, New Mexico: Proceedings of the Academy of Natural Sciences of Philadelphia, v. 88, p. 219-241.
- Stovall, J. W., 1946, A Pleistocene *Ovis canadensis* from New Mexico: Journal of Paleontology, v. 20, p. 259-260.
- Tedford, R. H., 1981, Mammalian biochronology of the late Cenozoic basins of New Mexico: Geological Society of America, Bulletin, pt. I, v. 92, p. 1008-1022.
- Thompson, R. S., Van Devender, T. R., Martin, P. S., Foppe, T. and Long, A., 1980, Shasta ground sloth (*Nothrotheriops shastense* Hoffstetter) at Shelter Cave, New Mexico: Environment, diet, and extinction: Quaternary Research, v. 14, p. 360-376.
- Van Devender, T. R. and Worthington, R. D., 1977, The herpetofauna of Howell's Ridge Cave and the paleoecology of the northwestern Chihuahuan Desert; in Wauer, R. H. and Riskind, D. H., eds., Transactions of the Symposium on the Biological Resources of the Chihuahuan Desert Region, United States and Mexico: National Park Service Transactions and Proceedings, series 3, p. 85-106.
- Van Devender, T. R., Moodie, K. B. and Harris, A. H., 1976, The desert tortoise (*Gopherus agassizi*) in the Pleistocene of the northern Chihuahuan Desert: Herpetologica, v. 32, p. 298-304.
- Vanderhill, J. B., 1986, Lithostratigraphy, vertebrate paleontology, and magnetostratigraphy of Plio-Pleistocene sediments in the Mesilla Basin, New Mexico [Ph.D. dissertation]: Austin, University of Texas at Austin, 305 p.
- Wendorf, F. and Hester, J. J., eds., 1975, Late Pleistocene environments of the Southern High Plains: Fort Burgwin Research Center, Publication no. 9, p. 1-290.
- Wetmore, A., 1931, The California condor in New Mexico: Condor, v. 33, p. 76-77.
- Wetmore, A., 1932, Additional records of birds from cavern deposits in New Mexico: Condor, v. 34, p. 141-142.
- Wiley, E. O., 1972, The Pleistocene herpetofauna of Dark Canyon Cave, New Mexico: Herpetological Review, v. 4, p. 128.
- Winans, M. C., 1989, A quantitative study of North American fossil species of the genus *Equus*; in Prothero, D. R. and Schoch, R. M., eds., The Evolution of the Perissodactyls: New York, Oxford University Press, p. 262-297.
- Wolberg, D. L., 1980, Pleistocene horse skull discovered: New Mexico Geology, v. 2, p. 29.

APPENDIX 1—SITES

New Mexico Quaternary sites. Literature citations are not meant to be complete but merely to allow entry into the literature; further entries are available in Harris 1977 and 1985, which address most of the sites listed. "UTEP" indicates holding of the Laboratory for Environmental Biology. The numbers in parentheses following the localities correspond to the site numbers in Figure 1.

Locality	Age	References	Locality	Age	References
Anthony, 3 mi E (62)	Blancan/Irvingtonian	UTEP; Vanderhill 1986	Carlsbad Cavern (70)	Late Pleistocene	Baker 1963; Hill & Gillette 1985, 1987
Abiquiu (5)	Pleistocene	Simpson 1963	Carrizozo UTEP 187 (47)	Rancholabrean	UTEP
Aden Fumarole (60)	Wisconsinan/ Holocene	Lull 1929; UTEP	Casados Ranch (I I)	Cf. Illinoian	McMullen & Zakrzewski 1972
Albert (10)	Pleistocene	Hay 1924; Lucas & Effinger 1991	Cave in Manzano Mts. (28)	Pleistocene	Howell 1915
Albuquerque (23)	Pleistocene	Brodkorb 1964	Cave NE Dry Cave UTEP 186 (70)	Wisconsinan	UTEP
Algerita Blossom Cave UTEP 119 (70)	Late Wisconsinan	UTEP	Chamberino UTEP 106 (62)	Blancan/Irvingtonian	Vanderhill 1986; UTEP
Anderson Basin No. 1 (36)	Late Wisconsinan	Stock & Bode 1936	Chamberino to Canutillo (62)	Blancan/Irvingtonian	Frick 1937; Teford 1981; Vanderhill 1986
Anderson Basin No. 2 (36)	Late Wisconsinan	Stock & Bode 1936; Wendorf & Hester 1975	Chaco Canyon (4)	Middle Holocene	Lyman 1983
Animal Fair and Animal Fair 18—20 ka, Dry Cave UTEP 22 (70)	Mid/Late Wisconsinan	Campbell & Tonni 1981; Harris 1989	Charlies Parlor, Dry Cave UTEP 22 (70)	Late Wisconsinan	Harris & Mundel 1974; UTEP
Atlal Cave (4)	Late Wisconsinan	Gillespie 1981, 1982, 1984	Circus Basin (36)	Late Wisconsinan	Stock & Bode 1936
Balcony on Lost Valley, Dry Cave UTEP 2 (70)	Early/Mid Wisconsinan	Harris 1980; UTEP	Circus Route UTEP 123 (70)	Late Wisconsinan	UTEP
Balcony Room, Dry Cave UTEP 12 (70)	Late Wisconsinan/ Holocene	Applegarth 19798; Harris 1970; Holman 1970; UTEP	Clovis area (36)	Late Wisconsinan	McDonald 1981
Baldy Peak Cave UTEP 94 (55)	Late Wisconsinan	Harris 1984a; UTEP	Conkling Cavern (59)	Late Wisconsinan	Brattstrom 1961, 1964; Conkling 1932; Davis 1969; Howard 1968, 1971; Howard & Miller 1933; Smartt 1977; UTEP
Bat Cave (41)	Late Wisconsinan/ Holocene	Scarborough 1986	Cornudas Mts. (66)	Pleistocene	UTEP
Bernalillo, N of (14)	Late Wisconsinan	Smartt et al. 1991	Corona (45)	Pleistocene	Hay 1927; Lucas & Effinger 1991
Beyond Bison Chamber, Dry Cave UTEP 3 (70)	Late Wisconsinan/ Holocene	Harris 1970; Holman 1970	Cueva Las Cruces (58)	Pleistocene	Kurten 1975
Big Manhole Cave UTEP 120 (70)	Wisconsinan	UTEP 120 (70)	Dark Canyon Cave (70)	Mid/Late Wisconsinan	Applegarth 1979a, b; Emslie 1985, 1987; Hargrave & Emslie 1980; Harris & Crews 1983; Harris & Porter 1980; Howard 1971; Rea 1973, 1980; Rickart 1977; Wiley 1972; UTEP
Big Manhole Cave UTEP 120 (70)	Late Wisconsinan	UTEP	Deming (54)	Pleistocene	Hay 1924; Lucas 1988; Lucas & Effinger 1991
Bison Chamber, Dry Cave UTEP 4 (70)	Late Wisconsinan	Applegarth 1979b; Harris 1970, 1984a; Harris et al. 1973; Holman 1970; UTEP	Doolittle Cave (52)	Pleistocene/Holocene	Cosgrove 1947
Black River (71)	Late Wisconsinan/ Holocene	UTEP	Dunlap (35)	Early/Mid Wisconsinan	Hay 1927; Lucas & Effinger 1991
Black Rocks (12)	Pleistocene	Allen 1913; Hay 1924; Lucas & Effinger 1991; McDonald & Ray 1989	Edith Fm., Albuquerque area (23)	Wisconsinan	Kelley & Northrup 1975; Kues 1982; Lambert 1968; Lucas & Effinger 1991; Lucas & Logan 1984; Lucas et al. 1988; O'Neill & Rigby 1982; Ratkevich & Pope 1975
Blackwater Draw & Loc. No. I (36)	Late Wisconsinan	Hester 1967; Johnson 1986; Stock & Bode 1936	Elephant Tusk Basin (36)	Late Wisconsinan	Stock & Bode 1936
Bloomfield (2)	Wisconsinan	Lucas & Effinger 1991; Stovall 1946	Encino Blowouts (31)	Pleistocene	Agogino & Stevens 1972
Boyd's Cave UTEP 105 (70)	Late Wisconsinan/ Holocene	UTEP	Entrance Chamber, Dry Cave UTEP 24 (70)	Holocene	Harris 1984a; UTEP
Brown Sand Wedge (36)	Late Wisconsinan	Slaughter 1975	Estancia Valley (30)	Late Wisconsinan	Bachhuber 1989
Burnet Cave (67)	Late Wisconsinan/ Holocene	Emslie 1987; Harris unpubl; Murray 1957; Rea 1980, Rickart 1977; Russell 1968; Schultz & Howard 1935; Steadman 1980; Wetmore 1931, 1932	Folsom Site (8)	Late Wisconsinan	Hay & Cook 1930; McDonald 1981
Camel Room, Dry Cave UTEP 25 (70)	Late Wisconsinan	Harris & Porter 1980; UTEP	Fosberg Cave (59)	Wisconsinan/ Holocene	Brattstrom 1964
Capitan (48)	Pleistocene	Hay 1924; Lucas & Effinger 1991	Fresnal Canyon UTEP 175 (63)	Illinoian ?	UTEP
			Galisteo, 1 mi SW (18)	Irvingtonian ?	Disbrow & Stoll 1957
			Gatuna Formation (73)	Blancan/Irvingtonian	Miller 1982
			Gray Sand (Blackwater Draw No. 1) (36)	Late Wisconsinan	Harris & Porter 1980; Lundelius 1972

Locality	Age	References	Locality	Age	References
Guadalupita Canyon (9)	Late Pleistocene	Gillette et al. 1985b; Lucas & Effinger 1991	Oven Site (1)	Late Wisconsinan	O'Neill 1992; Simmons et al. 1984
Hampton Court, Dry Cave UTEP 22 (70)	Mid/Late Wisconsinan	UTEP	Palomas Creek Cave UTEP 82 (50)	Rancholabrean	Harris 1985a
Harris' Pocket, Dry Cave UTEP 6 (70)	Late Wisconsinan	Applegarth 1979b; Harris 1970, 1984a; Harris & Porter 1980; Holman 1970; UTEP	Pena Blanca (13)	Pleistocene	Hay 1924; Lucas & Effinger 1991
Hatch Cemetery (56)	Quaternary	UTEP	Pendejo Cave (65)	Mid & Late Wisconsinan, Holocene	Harris 1991; UTEP
Hermit's Cave (68)	Late Wisconsinan	Agenbroad 1984; Findley 1965; Harris & Carraway 1993; Hester 1960, 1972; Lucas & Effinger 1991	Picacho (58)	Pleistocene	UTEP
Howell's Ridge Cave (53)	Late Wisconsinan/Holocene	Emslie 1987; Harris et al. 1973; Howard 1962, 1964, 1968; Rea 1980; Smartt 1977; Steadman 1980; Van Devender & Worthington 1977; UTEP	Picuris Pueblo (6)	Wisconsinan	Hargrave & Emslie 1980; UTEP
Human Corridor, Dry Cave UTEP 31 (71)	Late Wisconsinan	Harris & Porter 1980; UTEP	Pit N&W Animal Fair, Dry Cave UTEP 122 (70)	Mid/Late Wisconsinan	Harris 1984a, 1985a, 1988; UTEP
Isleta Cave No. 1 UTEP 41 (25)	Late Wisconsinan/Holocene	Harris 1984a; Harris & Findley 1964; Hibben 1941; UTEP	Placitas (15)	Rancholabrean	Hay 1924; Lucas & Effinger 1991; UTEP
Isleta Cave No. 2 UTEP 46 (25)	Late Wisconsinan/Holocene	Harris 1984a, Harris & Findley 1964; UTEP	Pumphouse Canyon UTEP 178 (64)	Quaternary	Hibben 1941; Lucas & Effinger 1991
Kentucky Club Room, Dry Cave UTEP 177 (70)	Wisconsinan	UTEP	Quarai (29)	Pleistocene	McDonald 1981
Khulo Site UTEP 21 (60)	Holocene	Harris 1984a; Harris & Crews 1983; Smartt 1977	Raton (7)	Rancholabrean	Harris 1984a; UTEP
Las Cruces (58)	Irvingtonian	Kurten & Anderson 1980; Lucas & Effinger 1991; Tedford 1981; Vanderhill 1986	Rick's Cenote UTEP 28 (70)	Late Wisconsinan	
Las Vegas (19)	Pleistocene	Hay 1924; Lucas & Effinger 1991	Rio Conchos (20)	Pleistocene	Hay 1924; Lucas & Effinger 1991
Lincoln County (46)	Pleistocene		Rm Vanishing Floor, Dry Cave UTEP 26, 27 (70)	Early/Mid Wisconsinan	Harris 1980, 1984a, 1984b; Harris & Crews 1983; Magish & Harris 1976; Russell & Harris 1986; Van Devender et al. 1976; UTEP
Lost Valley, Dry Cave UTEP 1, 17 (70)	Early/Mid Wisconsinan	Harris 1980, 1984b; Magish & Harris 1976; UTEP	Robledo Cave (57)	Late Wisconsinan/Holocene	Harris 1985a; Van Devender et al. 1976
Lucy Site (30)	Late Wisconsinan	Agenbroad 1984; Crane & Griffin 1958; Lucas & Effinger 1991	Ruidoso UTEP 176 (49)	Rancholabrean	UTEP
Manzano Cave (28)	Pleistocene	Hibben 1941	Sabertooth Camel Maze, Dry Cave UTEP 5 (70)	Early/Mid Wisconsinan	Harris 1980; Moodie & Van Devender 1979; Rea 1980; Russell & Harris 1986; Van Devender et al. 1976
Maze NE Entrance Dry Cave UTEP 117 (70)	Wisconsinan	UTEP	Sacramento Mts. (64)	Pleistocene	Hay 1924; Lucas & Effinger 1991
McCullum Ranch (36)	Late Wisconsinan	Haynes & Agogino 1966	San Agustin Plains (38)	Wisconsinan	Hay 1924; Lucas & Effinger 1991
McKittrick Cave (70)	Wisconsinan/Holocene	UTEP	San Antonio Site (43)	Blancan/Pleistocene	Needham 1936; Rea 1980; Tedford 1981
Mesa Redonda (21)	Mid/Late Rancholabrean	Gillette et al. 1985a	San Francisco River (40)	Irvingtonian	Tedford 1981
Mesilla Basin (61)	Blancan/Irvingtonian	Vanderhill 1986	San Jon (22)	Late Wisconsinan	Lucas & Effinger 1991; Roberts 1942
Milagro (33)	Pleistocene	Lucas & Effinger 1991	San Simon Sink (75)	Wisconsinan	Harris 1985a
Mockingbird Gap (44)	Late Wisconsinan	Lucas & Effinger 1991	Sandia Cave, Folsom Level (15)	Late Wisconsinan	Hibben 1941; Lucas & Effinger 1991
Muskox Cave (70)	Late Wisconsinan	Logan 1981	Sandia Cave, Sandia Level (15)	Late Wisconsinan	Hibben 1941; Lucas & Effinger 1991
Nash Draw UTEP 112 (72)	Quaternary	UTEP	Santa Cruz (16)	Pleistocene	Galusha & Blick 1971
New Area, Dry Cave UTEP 133 (70)	Early/Mid Wisconsinan	UTEP	Sapillo Creek (51)	Pleistocene	Wolberg 1980
New Cave (70)	Wisconsinan	Lawrence 1960	Sheep Camp Shelter (4)	Late Wisconsinan/Holocene	Betancourt et al. 1983; Gillespie 1982, 1984; Harris 1988
New La Bajada Hill (17)	Wisconsinan	Stearns 1942	Shelter Cave (59)	Mid/Late Wisconsinan/Holocene	Brattstrom 1961, 1964; Hall 1936; Harris 1984a; Harris & Crews 1983; Howard & Miller 1933; Howard 1931a, 1931b, 1962, 1964, 1971; Miller 1932; Rea 1973, 1980; Smartt 1977; Stock 1930, 1932; Thompson et al. 1980; UTEP
NIIP (Navajo Indian Irrigation Project) (3)	Middle Holocene	Lyman 1983			
NW Talus Slope, Dry Cave UTEP 22 (70)	Mid/Late Wisconsinan	UTEP			
Omega Cave UTEP 173 (69)	Wisconsinan/Holocene	UTEP			

Locality	Age	References	Locality	Age	References
Skull Ridge (16)	Pleistocene	Galusha & Blick 1971; Lucas & Effinger 1991	U-Bar Cave LA 5689 (76)	Mid Wisconsinan, Late Wisconsinan, Holocene	Emslie 1987; Harris 1985a, 1985b, 1987, 1989, 1990b; Harris & Carraway 1993; Lambert & Ambler 1961; Ray et al. 1988; Russell & Harris 1986; UTEP
South Chimney, Dry Cave UTEP 7 (70)	Wisconsinan	Harris 1985a	Una Vida (4)	Holocene	Hargrave & Emslie 1980
Stalag 17 UTEP 23 (70)	Late Wisconsinan	Harris 1984a; Harris & Porter 1980; UTEP	Vicinity Anapra UTEP 99 (62)	Blancan/Irvingtonian, Irvingtonian	Vanderhill 1986; UTEP
Stolle (37)	Late Wisconsinan	Agogino 1977	Vicinity La Union UTEP 33 (62)	Blancan/Irvingtonian, Irvingtonian	Riley 1984; Tedford 1981; Vanderhill 1986; UTEP
T28S R3E UTEP 97 (62)	Irvingtonian ?	Riley 1984; Vanderhill 1986; UTEP	White Lake, San Agustin Plains (42)	Wisconsinan	UTEP
Tijeras Arroyo NMMNH Loc 1452 (26)	Irvingtonian	Logan 1984; Logan et al. 1984; Lucas & Effinger 1991	Whut Cave (27)	Wisconsinan	Smartt & Hafner 1989
Tijeras Arroyo NMMNH Loc 1453 (26)	Irvingtonian	Logan 1984; Logan et al. 1984; Lucas & Effinger 1991	Witch Cave (27)	Wisconsinan	Smartt et al. 1990
Tijeras Arroyo NMMNH Loc 1455 (26)	Irvingtonian	Logan 1984; Logan et al. 1984; Lucas & Effinger 1991	Wylde Cave (59)	Wisconsinan/ Holocene	Brattstrom 1964
Tree Springs, Sandia Mts. (24)	Pleistocene	Martin & Guilday 1967	X-Bar-X Ranch (34)	Mid Wisconsinan	Lucas & Effinger 1991
TT II, Dry Cave UTEP 54 (70)	Late Wisconsinan	Harris 1984a; Harris & Porter 1980; UTEP	Yeso Arroyo (33)	Pleistocene	Agogino & Stevens 1972
Tularosa Cave (39)	Wisconsinan/ Holocene	Howell 1915			

APPENDIX 2—TAXA

New Mexico fossil sites arranged by taxon.

CLASS OSTEICHTHYES

Osteichthyes—Bony Fish

Early/early—mid Wisconsinan: Lost Valley. **Late Wisconsinan:** Animal Fair 18—20 ka; U-Bar Cave 14—15 ka; U-Bar Cave 15—18 ka. **Late Wisconsinan/Holocene:** Balcony Room.

ORDER CLUPEIFORMES, FAMILY CLUPEIDAE

Dorosoma petenense—Threadfin Shad**Blancan/Irvingtonian:** Gatuna Formation.

ORDER SALMONIFORMES, FAMILY SALMONIDAE

Oncorhynchus clarki—Cutthroat Trout**Late Wisconsinan:** Estancia Valley.

ORDER CYPRINIFORMES, FAMILY CYPRINIDAE

Gila robusta—Roundtail Chub**Late Wisconsinan/Holocene:** Howell's Ridge Cave (cf.).

ORDER SILURIFORMES, FAMILY ICTALURIDAE

Ictalurus sp.—Catfish**Blancan/Irvingtonian:** Vicinity La Union.

CLASS AMPHIBIA, ORDER CAUDATA, FAMILY AMBYSTOMATIDAE

Ambystoma sp.—Mole Salamanders**Illinoian:** Casados Ranch.*Ambystoma tigrinum*—Tiger Salamander

Wisconsinan: White Lake. **Mid Wisconsinan:** Pendejo Cave; U-Bar Cave. **Late Wisconsinan:** Animal Fair 18—20 ka; Bison Chamber; Charlies Parlor; Estancia Valley; Harris' Pocket; Stalag 17; TT II; U-Bar Cave 14—15 ka; U-Bar Cave 15—18 ka. **Late Wisconsinan/Holocene:** Howell's Ridge Cave; Pendejo Cave; Sheep Camp Shelter.

ORDER ANURA

Anura—Frogs and Relatives

Early/early- mid Wisconsinan: Lost Valley.

FAMILY PELOBATIDAE

Scaphiopus sp.—Spadefoot Toads

Wisconsinan: White Lake (cf.). **Mid Wisconsinan:** Pendejo Cave; U-Bar Cave. **Late Wisconsinan:** Harris' Pocket; TT II; U-Bar Cave 15—18 ka.

Scaphiopus bombifrons—Plains Spadefoot

Late Wisconsinan: Bison Chamber; Harris' Pocket. **Late Wisconsinan/Holocene:** Balcony Room; Howell's Ridge Cave.

Scaphiopus couchi—Couch's Spadefoot

Mid Wisconsinan—Holocene: Shelter Cave (cf.). **Mid/late Wisconsinan:** Dark Canyon Cave. **Late Wisconsinan/Holocene:** Howell's Ridge Cave.

Scaphiopus multiplicatus—Mexican Spadefoot

Mid/late Wisconsinan: Dark Canyon Cave. **Late Wisconsinan:** Animal Fair 18—20 ka; Bison Chamber; Sheep Camp Shelter. **Late Wisconsinan/Holocene:** Howell's Ridge Cave.

FAMILY LEPTODACTYLIDAE

Hylactophryne augusti—Barking Frog**Mid/late Wisconsinan:** Dark Canyon Cave.

FAMILY BUFONIDAE

Bufo sp.—Toads

Wisconsinan: White Lake (cf.). **Late Wisconsinan:** Charlies Parlor; U-Bar Cave 13—14 ka.

Bufo alvarius—Colorado River Toad**Late Wisconsinan:** U-Bar Cave 15—18 ka.*Bufo cognatus*—Great Plains Toad**Late Wisconsinan:** Animal Fair 18—20 ka; TT 11 (cf.).*Bufo debilis*—Green Toad

Late Wisconsinan: U-Bar Cave 15—18 ka (cf.). **Late Wisconsinan/Holocene:** Howell's Ridge Cave.

Bufo microscaphus—Southwestern Toad**Late Wisconsinan:** U-Bar Cave 14—15 ka (?).*Bufo punctatus*—Red-spotted Toad

Late Wisconsinan: TT II (cf.); U-Bar Cave (cf.). **Late Wisconsinan/Holocene:** Balcony Room; Howell's Ridge Cave.

Bufo woodhousei—Woodhouse's Toad

Mid/late Wisconsinan: Dark Canyon Cave. **Late Wisconsinan:** Animal Fair 18–20 ka. **Late Wisconsinan/Holocene:** Howell's Ridge Cave; U-Bar Cave (?).

Bufo woodhousei woodhousei—Woodhouse's Toad.

Late Wisconsinan: Bison Chamber; Harris' Pocket.

FAMILY HYLIDAE

Hyla arenicolor—Canyon Treefrog

Late Wisconsinan/Holocene: Howell's Ridge Cave (cf.).

Pseudacris triseriata—Striped Chorus Frog

Late Wisconsinan: Animal Fair 18–20 ka; Harris' Pocket; TT II.

FAMILY RANIDAE

Rana sp.—True Frogs

Wisconsinan: White Lake. **Late Wisconsinan:** Blackwater Loc. No. 1, Clovis age; TT II.

Rana blairi/pipiens—Plains/Northern Leopard Frog

Mid/late Wisconsinan: Dark Canyon Cave. **Late Wisconsinan:** Animal Fair 18–20 ka; Bison Chamber.

Rana pipiens—Northern Leopard Frog

Mid Wisconsinan/Holocene: Shelter Cave (cf.). **Late Wisconsinan:** Brown Sand Wedge. **Late Wisconsinan/Holocene:** Howell's Ridge Cave (cf.).

CLASS REPTILIA, ORDER TESTUDINES

Testudines—Turtles

Mid Wisconsinan: U-Bar Cave. **Late Wisconsinan:** U-Bar Cave 15–18 ka.

FAMILY EMYDIDAE

Trachemys gaigeae/scripta—Big Bend or Common Slider

Irvingtonian: Vicinity La Union.

Terrapene sp.—Box Turtles

Late Wisconsinan: Human Corridor.

Terrapene carolina—Common Box Turtle

Late Wisconsinan/Holocene: Burnet Cave.

±*Terrapene carolina putnami*—Putnam's Box Turtle

Late Wisconsinan: Brown Sand Wedge (cf. spp.); Gray Sand.

Terrapene ornata—Ornate Box Turtle

Late Wisconsinan: Anderson Basin No. 1; U-Bar Cave 13–14 ka (cf.); U-Bar Cave 14–15 ka (cf.). **Late Wisconsinan/Holocene:** Pendejo Cave (cf.).

FAMILY TESTUDINIDAE

Geochelone sp.—Geochelone Tortoises

Blancan/Irvingtonian: T28S R3E (cf.); Vicinity La Union (cf.). **Irvingtonian:** Vicinity Anapra (cf.). **Late Wisconsinan:** Gray Sand (cf.).

Geochelone wilsoni—Wilson's Tortoise

Early/early-mid Wisconsinan: Sabertooth Camel Maze. **Late Wisconsinan:** Brown Sand Wedge (cf.).

Gopherus sp.—Gopher Tortoises

Irvingtonian: Vicinity La Union (cf.). **Late Wisconsinan:** U-Bar Cave 13–14 ka (cf.); U-Bar Cave 14–15 ka; U-Bar Cave 18–20 ka (cf.).

Gopherus agassizi—Gopher Tortoise

Early/early-mid Wisconsinan: Rm Vanishing Floor; Sabertooth Camel Maze. **Mid Wisconsinan:** Pendejo Cave. **Mid Wisconsinan-Holocene:** Shelter Cave. **Late Wisconsinan/Holocene:** Conkling Cavern; Robledo Cave (cf.); Pendejo Cave.

ORDER SQUAMATA, SUBORDER SAURIA, FAMILY IGUANIDAE

Cophosaurus texanus—Greater Earless Lizard

Early/early-mid Wisconsinan: Lost Valley (? gen. et sp.). **Late Wisconsinan/Holocene:** Howell's Ridge Cave.

Crotaphytus collaris—Collared Lizard

Early/early-mid Wisconsinan: Lost Valley; Rm Vanishing Floor. **Mid Wisconsinan:** Pendejo Cave; U-Bar Cave. **Mid Wisconsinan-Holocene:** Shelter Cave. **Mid/late Wisconsinan:** Dark Canyon Cave. **Late Wisconsinan:** Animal Fair 18–20 ka; Bison Chamber; TT II; U-Bar Cave 14–15 ka. **Late Wisconsinan/Holocene:** Balcony Room; Burnet Cave (cf. gen. et sp.); Howell's Ridge Cave; Isleta Caves; Pendejo Cave; Wylde Cave.

Gambelia wislizeni—Long-nosed Leopard Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave.

Holbrookia maculata—Lesser Earless Lizard

Mid/late Wisconsinan: Animal Fair. **Mid/late Wisconsinan:** Dark Canyon Cave. **Late Wisconsinan/Holocene:** Howell's Ridge Cave.

Phrynosoma cornutum—Texas Horned Lizard

Early/early-mid Wisconsinan: Lost Valley. **Mid Wisconsinan:** U-Bar Cave.

Mid Wisconsinan-Holocene: Shelter Cave. **Mid/late Wisconsinan:** Dark Canyon Cave. **Late Wisconsinan:** Bison Chamber; TT II; U-Bar Cave 14–15 ka (cf.). **Late Wisconsinan/Holocene:** Burnet Cave; Howell's Ridge Cave; Pendejo Cave.

Phrynosoma douglassi—Short-horned Lizard

Early/early-mid Wisconsinan: Lost Valley; Rm Vanishing Floor. **Mid Wisconsinan:** Pendejo Cave; U-Bar Cave. **Mid/late Wisconsinan:** Dark Canyon Cave; NW Talus Slope. **Late Wisconsinan:** Algerita Blossom Cave; Animal Fair 18–20 ka; Bison Chamber; Charlies Parlor; Harris' Pocket; Sheep Camp Shelter; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka (cf.); U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. **Late Wisconsinan/Holocene:** Balcony Room; Beyond Bison Chamber; Burnet Cave; Howell's Ridge Cave; Pendejo Cave.

Phrynosoma modestum—Round-tailed Horned Lizard

Early/early-mid Wisconsinan: Lost Valley. **Mid Wisconsinan:** Pendejo Cave; U-Bar Cave. **Mid/late Wisconsinan:** Dark Canyon Cave. **Late Wisconsinan:** TT II. **Late Wisconsinan/Holocene:** Howell's Ridge Cave; Pendejo Cave.

Sceloporus sp.—Spiny Lizards

Late Wisconsinan/Holocene: Burnet Cave.

Sceloporus sp. (small)—Small Spiny Lizard

Early/early-mid Wisconsinan: Lost Valley; Rm Vanishing Floor.

Sceloporus sp. (large)—Large Spiny Lizard

Mid Wisconsinan: U-Bar Cave. **Early/late Wisconsinan:** Animal Fair. **Late Wisconsinan:** Charlies Parlor (cf.); U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka (cf.).

Sceloporus clarki—Clark's Spiny Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave (cf.).

Sceloporus jarrovi—Yarrow's Spiny Lizard

Late Wisconsinan: U-Bar Cave 15–18 ka (cf.); U-Bar Cave 18–20 ka (cf.).

Late Wisconsinan/Holocene: Howell's Ridge Cave (cf.).

Sceloporus magister—Desert Spiny Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave (cf.).

Sceloporus undulatus—Eastern Fence Lizard

Mid/late Wisconsinan: Pendejo Cave (cf. gen. et sp.). **Mid/late Wisconsinan:** Dark Canyon Cave. **Late Wisconsinan:** Animal Fair 18–20 ka; Bison Chamber; Harris' Pocket; TT II. **Late Wisconsinan/Holocene:** Balcony Room; Howell's Ridge Cave (cf.).

Urosaurus ornatus—Tree Lizard

Mid Wisconsinan: U-Bar Cave (cf. gen. et sp.). **Late Wisconsinan/Holocene:** Howell's Ridge Cave.

Uta stansburiana—Side-blotched Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave.

FAMILY TEIIDAE

Cnemidophorus sp. (smaller)—Small Whiptail Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave.

Cnemidophorus sp. (large)—Large Whiptail Lizard

Mid Wisconsinan: U-Bar Cave. **Mid/late Wisconsinan:** Dark Canyon Cave.

Cnemidophorus sp. (*C. tigris* size)—Whiptail Lizard (Western Whiptail Size)

Late Wisconsinan: TT II.

Cnemidophorus neomexicanus—New Mexican Whiptail

Late Wisconsinan/Holocene: Isleta Caves.

Cnemidophorus tigris—Western Whiptail Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave.

FAMILY SCINCIDAE

Eumeces obsoletus—Great Plains Skink

Mid Wisconsinan-Holocene: Shelter Cave. **Late Wisconsinan/Holocene:** Howell's Ridge Cave; Wylde Cave.

Eumeces (*E. multivirgatus* size)—Skink (Many-lined Skink Size)

Mid/late Wisconsinan: Dark Canyon Cave.

Eumeces multivirgatus—Many-lined Skink

Late Wisconsinan: Animal Fair 18–20 ka.

FAMILY ANGUIDAE

Gerrhonotus kingi—Arizona Alligator Lizard

Late Wisconsinan/Holocene: Howell's Ridge Cave.

FAMILY HELODERMATIDAE

Heloderma suspectum—Gila Monster

Mid Wisconsinan: U-Bar Cave.

FAMILY LEPTOTYPHLOPIDAE

Leptotyphlops sp.—Slender Blind Snake

Late Wisconsinan/Holocene: Howell's Ridge Cave.

SUBORDER SERPENTES, FAMILY COLUBRIDAE

- Arizona elegans*—Glossy Snake
Late Wisconsin/Holocene: Conkling Cavern; Howells Ridge Cave.
- Coluber constrictor* Racer
Mid Wisconsin/Holocene: Shelter Cave. Late Wisconsin/Holocene: Conkling Cavern.
- Diadophis punctatus*— Ring-necked Snake
Late Wisconsin/Holocene: Howells Ridge Cave.
- Elaphe guttata* Corn Snake
Late Wisconsin: Bison Chamber.
- Elaphe subocularis* Trans-Pecos Rat Snake
Mid Wisconsin/Holocene: Shelter Cave. Late Wisconsin/Holocene: Conkling Cavern; Wylde Cave.
- Gyalopion canum*—Chihuahuan Hook-nosed Snake
Late Wisconsin/Holocene: Howells Ridge Cave.
- Heterodon nasicus*—Western Hog-nosed Snake
Late Wisconsin: Brown Sand Wedge (cf.). Late Wisconsin/Holocene: Howells Ridge Cave.
- Hypsiglena torquata* Night Snake
Late Wisconsin/Holocene: Howells Ridge Cave.
- Lampropeltis getulus* Common Kingsnake
Mid Wisconsin: Pendejo Cave (cf. gen. et sp.). Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin/Holocene: Howells Ridge Cave.
- Lampropeltis pyromelana* Sonoran Mountain Kingsnake
Late Wisconsin/Holocene: Howells Ridge Cave (cf.).
- Lampropeltis triangulum* Milk Snake
Late Wisconsin: Brown Sand Wedge (cf.).
- Masticophis* sp.—Coachwhip Snakes
Late Wisconsin: TT II; U-Bar Cave 1518 ka. Late Wisconsin/Holocene: Conkling Cavern; Howells Ridge Cave.
- Masticophis flagellum*—Coachwhip
Mid Wisconsin/Holocene: Shelter Cave.
- Pituophis* sp.—Pine Snakes
Mid Wisconsin: U-Bar Cave (?).
- Pituophis melanoleucus* Pine Snake
Mid Wisconsin: Pendejo Cave (cf. gen. et sp.). Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin/Holocene: Conkling Cavern; Howells Ridge Cave.
- Rhinocheilus lecontei* Long-nosed Snake
Late Wisconsin/Holocene: Conkling Cavern; Howells Ridge Cave.
- Salvadora* sp.—Patch-nosed Snakes
Mid Wisconsin: U-Bar Cave (cf.). Mid/late Wisconsin: Animal Fair.
Late Wisconsin: Charlies Parlor (cf.); Bison Chamber; Harris Pocket.
Late Wisconsin/Holocene: Howells Ridge Cave.
- Sonora* sp.—Ground Snakes
Late Wisconsin: U-Bar Cave 15-18 ka (?).
- Sonora semiannulata* Ground Snake
Late Wisconsin/Holocene: Howells Ridge Cave.
- Tantilla* sp.—Black-headed Snakes
Late Wisconsin/Holocene: Howells Ridge Cave.
- Thamnophis* sp.—Garter Snakes
Mid Wisconsin: Pendejo Cave. Late Wisconsin: Animal Fair 1820 ka; Harris Pocket; TT II; U-Bar Cave 1315 ka (?). Late Wisconsin/Holocene: Balcony Room.
- Thamnophis cyrtopsis*—Black-necked Garter Snake
Late Wisconsin/Holocene: Howells Ridge Cave (cf.).
- Thamnophis proximus* Western Ribbon Snake
Late Wisconsin: Bison Chamber; Brown Sand Wedge.
- Thamnophis sirtalis*: Common Garter Snake
Late Wisconsin: Brown Sand Wedge.
- Trimorphodon biscutatus* Western Lyre Snake
Mid Wisconsin/Holocene: Shelter Cave. Late Wisconsin/Holocene: Howells Ridge Cave.

SUBORDER SERPENTES, FAMILY VIPERIDAE, SUBFAMILY CROTALIDAE

- Crotalus* sp.—Rattlesnakes
Early/earlymid Wisconsin: Rm Vanishing Floor. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Late Wisconsin: Algerita Blossom Cave; Animal Fair 1820 ka; Camel Room; Charlies Parlor; Harris Pocket; Pendejo Cave; TT II; U-Bar Cave 1314 ka; U-Bar Cave 1415 ka; U-Bar Cave 1518 ka; U-Bar Cave 1820 ka. Late Wisconsin/Holocene: Beyond Bison Chamber; Howells Ridge Cave; Isleta Caves (?).
- Crotalus atrox*—Western Diamondback Rattlesnake
Mid Wisconsin/Holocene: Shelter Cave. Late Wisconsin: Bison Chamber. Late Wisconsin/Holocene: Balcony Room; Conkling Cavern; Fosberg Cave.

CLASS AVES, ORDER PODICIPEDIFORMES, FAMILY PODICIPEDIDAE

- Aechmophorus occidentalis* Western Grebe
Late Wisconsin/Holocene: Burnet Cave.
- Podiceps/Podilymbus* Typical or Pied-billed Grebes
Wisconsin: White Lake.
- Podiceps nigricollis* Eared Grebe
Mid/late Wisconsin: Dark Canyon Cave.

ORDER PELECANIFORMES, FAMILY PHALACROCORACIDAE

- Phalacrocorax auritus*—Double-crested Cormorant
Mid/late Wisconsin: Dark Canyon Cave.

ORDER ANSERIFORMES, FAMILY ANATIDAE

- Aix sponsa*—Wood Duck
Mid/late Wisconsin: Dark Canyon Cave.
- †*Anabernicula* sp.—Pygmy Geese
Mid Wisconsin: U-Bar Cave (cf.). Late Wisconsin/Holocene: Pendejo Cave (?).
- †*Anabernicula gracilentia* Graceful Pygmy Goose
Mid/late Wisconsin: Shelter Cave. Late Wisconsin: Howells Ridge Cave.
- †*Anabernicula oregonensis* Oregon Pygmy Goose
Mid/late Wisconsin: Dark Canyon Cave (cf.).
- Anas* sp.—Dabbling Ducks
Late Wisconsin/Holocene: Balcony Room.
- Anas*, size *A. acuta*—Dabbling Duck (Northern Pintail Size)
Wisconsin: White Lake (cf.). Late Wisconsin: Stalag 17.
- Anas acuta*—Northern Pintail
Mid Wisconsin/Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin/Holocene: Howells Ridge Cave (cf.).
- Anas americana* American Wigeon
Early/earlymid Wisconsin: Rm Vanishing Floor (?). Late Wisconsin/Holocene: Howells Ridge Cave (cf.).
- Anas crecca carolinensis* Green-winged Teal
Mid Wisconsin/Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave (?). Late Wisconsin/Holocene: Howells Ridge Cave (cf.).
- Anas cyanoptera*—Cinnamon Teal
Mid/late Wisconsin: U-Bar Cave (?). Late Wisconsin: Animal Fair 1820 ka (?).
- Anas discors*—Blue-winged Teal
Late Wisconsin: Stalag 17 (?).
- Anas platyrhynchos* Mallard
Mid Wisconsin: U-Bar Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: U-Bar Cave 1415 ka (cf.). Late Wisconsin/Holocene: Pendejo Cave (cf.).
- Anser albifrons*Greater White-fronted Goose
Mid Wisconsin/Holocene: Shelter Cave (?).
- Aythya affinis/collaris* Lesser Scaup or Ring-necked Duck
Late Wisconsin/Holocene: Howells Ridge Cave (cf.).
- Aythya valisineria*—Canvasback
Mid/late Wisconsin: Dark Canyon Cave.
- Branta* sp.—Brent Geese
Wisconsin: White Lake (?).
- Branta canadensis* Canada Goose
Late Wisconsin: Blackwater Loc. No. 1, Clovis age. Late Wisconsin/Holocene: Conkling Cavern.
- Mergus merganser*—Common Merganser
Mid/late Wisconsin: Dark Canyon Cave (cf.).

ORDER FALCONIFORMES, FAMILY CATHARTIDAE

- †*Breagyps clarki*—Clarks Condor
Early/earlymid Wisconsin: Lost Valley; Sabertooth Camel Maze. Mid/late Wisconsin: Shelter Cave; U-Bar Cave. Late Wisconsin: Howells Ridge Cave (? gen. et sp.).
- Cathartes aura*—Turkey Vulture
Mid Wisconsin: U-Bar Cave. Mid Wisconsin/Holocene: Shelter Cave. Late Wisconsin: Blackwater Loc. No. 1, Clovis age; U-Bar Cave 1415 ka. Late Wisconsin/Holocene: Balcony Room; Burnet Cave; Boyds Cave; Conkling Cavern; Pendejo Cave; Stalag 17.
- Coragyps atratus*—Black Vulture
Pleistocene: Albuquerque.
- Coragyps atratus/occidentalis*—Black Vulture or Western Vulture
Mid Wisconsin/Holocene: U-Bar Cave. Late Wisconsin/Holocene: Burnet Cave.

†*Coragyps occidentalis*—Western Vulture

Early/early-mid Wisconsin: Balcony on Lost Valley; Lost Valley; Sabertooth Camel Maze; Rm Vanishing Floor. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid/late Wisconsin: Dark Canyon Cave; Hampton Court; NW Talus Slope; Pit N&W Animal Fair. Late Wisconsin: Animal Fair 18–20 ka; Charlies Parlor; Howell's Ridge Cave; Human Corridor; Isleta Cave No. 1; Rick's Cenote; Stalag 17; TT II; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Balcony Room; Conkling Cavern; Pendejo Cave.

Gymnogyps californianus—California Condor

Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Howell's Ridge Cave; U-Bar Cave 13–14 ka. Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern.

†*Teratornis merriami*—Merriam's Teratorn

Late Wisconsin: Animal Fair 18–20 ka.

FAMILY ACCIPITRIDAE

Accipiter sp.—Bird Hawks

Late Wisconsin: Charlies Parlor.

Accipiter cooperi—Cooper's Hawk

Mid/late Wisconsin: Dark Canyon Cave; Pit N&W Animal Fair; U-Bar Cave. Late Wisconsin: Animal Fair 18–20 ka; Camel Room. Late Wisconsin/Holocene: Burnet Cave.

Accipiter striatus—Sharp-shinned Hawk

Early/early-mid Wisconsin: Rm Vanishing Floor (cf.). Mid Wisconsin: Pendejo Cave. Mid Wisconsin-Holocene: Shelter Cave.

Aquila sp.—Golden Eagles

Early/early-mid Wisconsin: Lost Valley (cf.).

Aquila chrysaetos—Golden Eagle

Early/Early-mid Wisconsin: Rm Vanishing Floor (?). Mid Wisconsin: U-Bar Cave. Mid Wisconsin-Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave; Hampton Court. Late Wisconsin: Animal Fair 18–20 ka. Late Wisconsin/Holocene: Balcony Room; Conkling Cavern; Howell's Ridge Cave; Isleta Cave No. 1.

Buteo sp.—Buteonine Hawks

Early/early-mid Wisconsin: Rm Vanishing Floor (cf.) Late Wisconsin: Charlies Parlor; TT II; U-Bar Cave 13–14 ka (?).

Buteo albonotatus—Zone-tailed Hawk

Mid Wisconsin-Holocene: Shelter Cave (?).

Buteo jamaicensis—Red-tailed Hawk

Mid Wisconsin-Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave; NW Talus Slope (cf.). Late Wisconsin: Animal Fair 18–20 ka (cf.). Late Wisconsin/Holocene: Conkling Cavern; Howell's Ridge Cave (cf.).

Buteo lagopus—Rough-legged Hawk

Mid/late Wisconsin: Dark Canyon Cave.

Buteo nitidus—Gray Hawk

Mid/late Wisconsin: Dark Canyon Cave.

Buteo regalis—Ferruginous Hawk

Late Wisconsin: Blackwater Loc. No. 1, Clovis age.

Buteo swainsoni—Swainson's Hawk

Mid Wisconsin: Pendejo Cave (cf.). Mid Wisconsin/Holocene: Shelter Cave. Mid/late Wisconsin: Pit N&W Animal Fair. Late Wisconsin: Camel Room (cf.). Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern; Pendejo Cave (cf.).

Buteogallus anthracinus—Common Black-hawk

Mid/late Wisconsin: Animal Fair (? gen. et sp.).

†*Buteogallus fragilis*—Fragile Eagle

Mid/late Wisconsin: Shelter Cave.

Circus cyaneus—Northern Harrier

Mid Wisconsin: Pendejo Cave (?). Mid/late Wisconsin: Dark Canyon Cave (cf. gen. et sp.). Late Wisconsin: Charlies Parlor.

Haliaeetus sp.—Bald Eagle

Late Wisconsin: Blackwater Loc. No. 1, Clovis age (cf.).

Haliaeetus leucocephalus—Bald Eagle

Late Wisconsin/Holocene: Conkling Cavern.

†*Neophrontops americanus*—American Neophrontops

Mid/late Wisconsin: Dark Canyon Cave.

†*Spizaetus willetti*—Willet's Hawk-eagle

Late Wisconsin: Howell's Ridge Cave.

FAMILY FALCONIDAE

Falco sp.—Falcons

Late Wisconsin: Camel Room.

Falco columbarius—Merlin

Late Wisconsin: Blackwater Loc. No. 1, Clovis age.

Falco mexicanus—Prairie Falcon

Mid Wisconsin: Pendejo Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Charlies Parlor. Late Wisconsin/Holocene: Burnet Cave; Howell's Ridge Cave.

Falco peregrinus—Peregrine Falcon

Early/early-mid Wisconsin: Rm Vanishing Floor (?). Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin/Holocene: Howell's Ridge Cave.

Falco rusticolus—Gyr Falcon

Mid/late Wisconsin: Dark Canyon Cave.

Falco sparverius—American Kestrel

Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid Wisconsin-Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave; Hampton Court. Late Wisconsin: U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern.

†*Polyborus plancus prelotus*—Extinct Crested Caracara

Mid/late Wisconsin: Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair; Shelter Cave. Late Wisconsin: Animal Fair 18–20 ka; Camel Room; Charlies Parlor; Harris' Pocket; Human Corridor; Stalag 17; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Balcony Room; Conkling Cavern.

ORDER GALLIFORMES, FAMILY PHASIANIDAE, SUBFAMILY TETRAONINAE

Grouse (2 spp.)

Mid/late Wisconsin: Dark Canyon Cave.

Centrocercus urophasianus—Sage Grouse

Mid/late Wisconsin: Shelter Cave. Late Wisconsin: Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsin/Holocene: Conkling Cavern; Sheep Camp Shelter.

Tympanuchus sp.—Prairie Chickens

Late Wisconsin: Harris' Pocket (cf.).

Tympanuchus pallidicinctus—Lesser Prairie Chicken

Mid Wisconsin: Pendejo Cave. Mid/late Wisconsin: Dark Canyon Cave (?); Hampton Court; NW Talus Slope (cf.). Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka (cf.); Big Manhole Cave; Charlies Parlor (cf.); Stalag 17; TT II. Late Wisconsin/Holocene: Burnet Cave.

SUBFAMILY MELEAGRINAE

Meleagris sp.—Turkeys

Mid Wisconsin: Pendejo Cave. Late Wisconsin: U-Bar Cave 15–18 ka (cf.); U-Bar Cave 18–20 ka (cf.).

†*Meleagris crassipes*—Bigfoot Turkey

Blancan/Irvingtonian: San Antonio Site. Early/early-mid Wisconsin: Sabertooth Camel Maze. Mid/late Wisconsin: Dark Canyon Cave; Shelter Cave; U-Bar Cave. Late Wisconsin: Burnet Cave. Late Wisconsin/Holocene: Howell's Ridge Cave.

Meleagris gallopavo—Wild Turkey

Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern.

SUBFAMILY ODONTOPHORINAE

Callipepla sp.—Crested Quails

Early/early-mid Wisconsin: Sabertooth Camel Maze (cf.). Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin: Camel Room (cf.); Stalag 17 (cf.). Late Wisconsin/Holocene: Conkling Cavern; Pendejo Cave.

Callipepla gambeli—Gambel's Quail

Late Wisconsin/Holocene: Conkling Cavern (?).

Callipepla squamata—Scaled Quail

Mid Wisconsin-Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave.

Colinus virginianus—Northern Bobwhite

Mid Wisconsin: U-Bar Cave (? gen. et sp.).

Cyrtonyx montezumae—Montezuma Quail

Early/early-mid Wisconsin: Rm Vanishing Floor (cf. gen. et sp.).

Oreortyx pictus—Mountain Quail

Mid/late Wisconsin: Shelter Cave. Late Wisconsin: Burnet Cave; Howell's Ridge Cave (cf. gen. et sp.).

ORDER GRUIFORMES, FAMILY RALLIDAE

Fulica sp.—Coots

Late Wisconsin: U-Bar Cave 18–20 ka (?).

Fulica americana—American Coot

Early/early-mid Wisconsin: Rm Vanishing Floor. Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin: Charlies Parlor. Late Wisconsin/Holocene: Pendejo Cave.

Porzana carolina—Sora
Mid Wisconsin–Holocene: Shelter Cave.

FAMILY GRUIDAE

Grus canadensis—Sandhill Crane
Late Wisconsin/Holocene: Burnet Cave.

ORDER CHARADRIIFORMES, FAMILY BURHINIDAE

Burhinus sp.—Thick-knees
Mid/late Wisconsin: Dark Canyon Cave.

†*Burhinus* sp. (small, extinct)—Extinct Thick-knee
Mid/late Wisconsin: Dark Canyon Cave.

FAMILY CHARADRIIDAE

Charadrius montanus—Mountain Plover
Mid/late Wisconsin: Dark Canyon Cave.

Charadrius vociferus—Killdeer
Late Wisconsin: Harris' Pocket.

FAMILY RECURVIROSTRIDAE

Recurvirostridae—Avocets and Stilts
Late Wisconsin: Camel Room (?).

FAMILY SCOLOPACIDAE

Actitis sp.—Spotted Sandpipers
Late Wisconsin: Stalag 17 (?).

Catoptrophorus semipalmatus—Willet
Mid/late Wisconsin: Animal Fair (? gen. et sp.).

Limnodromus scolopaceus—Long-billed Dowitcher
Late Wisconsin: Animal Fair 18–20 ka (cf.).

Numenius americanus—Long-billed Curlew
Late Wisconsin: Charlies Parlor; Harris' Pocket. Late Wisconsin/
Holocene: Howell's Ridge Cave.

Tringa melanoleucus—Greater Yellowlegs
Late Wisconsin: Animal Fair 18–20 ka.

FAMILY LARIDAE

Larus sp.—Gulls
Mid Wisconsin–Holocene: Shelter Cave.

ORDER COLUMBIFORMES, FAMILY COLUMBIDAE

†*Ectopistes migratorius*—Passenger Pigeon
Mid/late Wisconsin: Dark Canyon Cave. Holocene: Picuris; Una Vida.

Zenaidura macroura—Zenaidura Doves
Early/early–mid Wisconsin: Sabertooth Camel Maze (cf.).

Zenaidura macroura—Mourning Dove
Early/early–mid Wisconsin: Rm Vanishing Floor. Mid Wisconsin: U-
Bar Cave. Mid Wisconsin–Holocene: Shelter Cave. Mid/late Wisconsin:
Dark Canyon Cave; Hampton Court. Late Wisconsin/Holocene:
Howell's Ridge Cave; Pendejo Cave.

ORDER CUCULIFORMES, FAMILY CUCULIDAE

Geococcyx californianus californianus—Greater Roadrunner
Early/early–mid Wisconsin: Rm Vanishing Floor. Mid Wisconsin:
Pendejo Cave. Mid Wisconsin–Holocene: Shelter Cave.

†*Geococcyx californianus conklingi*—Conkling's Greater Roadrunner
Mid Wisconsin: Pendejo Cave. Mid Wisconsin–Holocene: Shelter Cave.
Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: U-Bar Cave
14–15 ka. Late Wisconsin/Holocene: Conkling Cavern.

ORDER STRIGIFORMES, FAMILY TYTONIDAE

Tyto alba—Common Barn-owl
Mid Wisconsin–Holocene: Shelter Cave. Mid/late Wisconsin: Dark
Canyon Cave. Late Wisconsin: Human Corridor. Late Wisconsin/Ho-
locene: Conkling Cavern; Howell's Ridge Cave.

FAMILY STRIGIDAE

Aegolius acadicus—Northern Saw-whet Owl
Mid Wisconsin–Holocene: Shelter Cave.

Aegolius funereus—Boreal Owl
Mid Wisconsin–Holocene: Shelter Cave.

Asio sp.—Eared Owls
Late Wisconsin: U-Bar Cave (?).

Asio flammeus—Short-eared Owl
Mid Wisconsin: Pendejo Cave. Mid/late Wisconsin: Dark Canyon Cave

(?). Late Wisconsin: Animal Fair 18–24 ka; Camel Room (cf.); Charlies
Parlor (cf.); TT II. Late Wisconsin/Holocene: Burnet Cave; Balcony Room;
Isleta Cave No. 1 (? gen. et sp.).

Asio otus—Long-eared Owl
Late Wisconsin/Holocene: Conkling Cavern (?); Howell's Ridge Cave.

Athene cunicularia—Burrowing Owl
Mid Wisconsin: Pendejo Cave (cf. gen. et sp.) Mid Wisconsin/Ho-
locene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wis-
consin: Stalag 17; U-Bar Cave. Late Wisconsin/Holocene: Conkling
Cavern.

Bubo virginianus—Great Horned Owl
Early/early–mid Wisconsin: Lost Valley; Rm Vanishing Floor. Mid Wis-
consin: Pendejo Cave. Mid Wisconsin–Holocene: Shelter Cave. Mid/
late Wisconsin: Dark Canyon Cave; NW Talus Slope. Late Wisconsin:
Charlies Parlor; Circus Route; Han-is' Pocket. Late Wisconsin/Holocene:
Burnet Cave; Howell's Ridge Cave; Pendejo Cave.

Otus sp.—Scops-Owls
Mid/late Wisconsin: Animal Fair (?). Late Wisconsin: Camel Room (?)

Otus kennicotti—Western Screech-Owl
Early/early–mid Wisconsin: Rm Vanishing Floor (cf. gen. et sp.) Mid
Wisconsin–Holocene: Shelter Cave. Late Wisconsin: U-Bar Cave 13–
14 ka (cf.); U-Bar Cave 14–15 ka (cf.); U-Bar Cave 15–18 ka.

†*Strix brea*—Tar-pit Owl
Early/early–mid Wisconsin: Rm Vanishing Floor (cf. gen. et sp.).

Strix occidentalis—Spotted Owl
Mid Wisconsin: U-Bar Cave (cf.).

ORDER CAPRIMULGIFORMES, FAMILY CAPRIMULGIDAE

Phalaenoptilus nuttalli—Common Poorwill
Mid/late Wisconsin: Dark Canyon Cave.

ORDER APODIFORMES, FAMILY APODIDAE

Aeronautes saxatilis—White-throated Swift
Mid Wisconsin–Holocene: Shelter Cave.

ORDER PICIFORMES, FAMILY PICIDAE

Picidae—Woodpeckers
Early/early–mid Wisconsin: Lost Valley.

Colaptes auratus—Northern Flicker
Early/early–mid Wisconsin: Rm Vanishing Floor (cf.). Mid Wisconsin:
Pendejo Cave; U-Bar Cave. Mid Wisconsin–Holocene: Shelter Cave.
Mid/late Wisconsin: Hampton Court. Late Wisconsin: TT II. Late
Wisconsin/Holocene: Burnet Cave; Conkling Cavern; Stalag 17.

Melanerpes formicivorus—Acorn Woodpecker
Mid Wisconsin–Holocene: Shelter Cave.

ORDER PASSERIFORMES, FAMILY TYRANNIDAE

Sayornis saya—Say's Phoebe
Mid Wisconsin–Holocene: Shelter Cave.

FAMILY ALAUDIDAE

Eremophila alpestris—Horned Lark
Mid Wisconsin–Holocene: Shelter Cave. Late Wisconsin: Bison
Chamber; Harris' Pocket. Late Wisconsin/Holocene: Balcony Room;
Conkling Cavern; Isleta Cave No. 1 (cf. gen. et sp.).

FAMILY HIRUNDINIDAE

Hirundo fulva pyrrhonota—Cave Swallow or Cliff Swallow
Late Wisconsin: Charlies Parlor (cf.); TT II.

FAMILY CORVIDAE

Aphelocoma coerulescens—Scrub Jay
Early/early–mid Wisconsin: Lost Valley (cf. gen. et sp.); Rm Vanishing
Floor.

Corvus corax—Common Raven
Early/early–mid Wisconsin: Lost Valley; Rm Vanishing Floor. Mid Wis-
consin–Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave;
Hampton Court; NW Talus Slope; Pit N&W Animal Fair: Late Wisconsin:
Animal Fair 18–20 ka; Camel Room; Charlies Parlor; Circus Route; Human
Corridor; Stalag 17; TT II; U-Bar Cave 14–15 ka. Late Wisconsin/Ho-
locene: Balcony Room; Conkling Cavern; Howell's Ridge Cave; Isleta Cave
No. 1; Isleta Cave No. 2; Pendejo Cave.

Corvus cryptoleucus—Chihuahuan Raven
Late Wisconsin/Holocene: Pendejo Cave.

- †*Corvus neomexicanus*—New Mexican Raven
Early/early-mid Wisconsinan: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze.
- Cyanocitta* sp.—Blue Jays
Early/early-mid Wisconsinan: Lost Valley (?); Rm Vanishing Floor. Mid/late Wisconsinan: U-Bar Cave (?).
- Gymnorhinus cyanocephalus*—Pinyon Jay
Mid Wisconsinan: Pendejo Cave (? gen. et sp.). Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan/Holocene: Conkling Cavern.
- Pica pica*—Black-billed Magpie
Mid Wisconsinan: Pendejo Cave. Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan: Animal Fair 18–20 ka; U-Bar Cave.

FAMILY TROGLODYTIDAE

- Catherpes mexicanus*—Canyon Wren
Mid Wisconsinan-Holocene: Shelter Cave.
- Salpinctes obsoletus*—Rock Wren
Mid Wisconsinan: U-Bar Cave (cf. gen. et sp.). Mid Wisconsinan-Holocene: Shelter Cave.

FAMILY MUSCICAPIDAE

- Catharus ustulatus*—Swainson's Thrush
Late Wisconsinan: Harris' Pocket.
- Sialia* sp.—Bluebirds
Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan: Bison Chamber; Harris' Pocket. Late Wisconsinan/Holocene: Balcony Room; Conkling Cavern.
- Turdus migratorius*—American Robin
Mid Wisconsinan-Holocene: Shelter Cave. Early/early-mid Wisconsinan: Rm Vanishing Floor (cf. gen. et sp.). Late Wisconsinan/Holocene: Conkling Cavern.

FAMILY MIMIDAE

- Mimus polyglottis*—Northern Mockingbird
Early/early-mid Wisconsinan: Rm Vanishing Floor (cf. gen. et sp.).
- Oreoscoptes montanus*—Sage Thrasher
Mid Wisconsinan-Holocene: Shelter Cave.
- Toxostoma* sp.—American Thrashers
Mid Wisconsinan-Holocene: Shelter Cave.

FAMILY LANIIDAE

- Lanius ludovicianus*—Loggerhead Shrike
Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan: Harris' Pocket.

FAMILY EMBERIZIDAE, SUBFAMILY CARDINALINAE

- Cardinalis*—Northern Cardinal
Late Wisconsinan: Harris' Pocket.
- Passerina* sp.—Varied Buntings
Mid/late Wisconsinan: Dark Canyon Cave (?).
- Spiza* sp.—Dickcissels
Mid/late Wisconsinan: Dark Canyon Cave (?).

SUBFAMILY EMBERIZINAE

- Aimophila* sp.—Aimophila Sparrows
Early/early-mid Wisconsinan: Rm Vanishing Floor (cf.).
- Calamospiza melanocorys*—Lark Bunting
Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan: Bison Chamber; Harris' Pocket.
- Pipilo erythrophthalmus*—Rufous-sided Towhee
Mid Wisconsinan-Holocene: Shelter Cave. Mid/late Wisconsinan: Dark Canyon Cave (? gen. et sp.). Late Wisconsinan: Stalag 17 (cf.). Late Wisconsinan/Holocene: Conkling Cavern.
- Pipilo fuscus*—Brown Towhee
Mid Wisconsinan-Holocene: Shelter Cave.

SUBFAMILY ICTERINAE

- Agelaius phoeniceus*—Red-winged Blackbird
Mid/late Wisconsinan: Dark Canyon Cave (? gen. et sp.). Late Wisconsinan: Harris' Pocket. Late Wisconsinan/Holocene: Conkling Cavern (?).
- Euphagus/Sturnella*—American Blackbirds or Meadowlarks
Mid/late Wisconsinan: Dark Canyon Cave (?).
- Icterus* sp.—American Orioles
Mid/late Wisconsinan: Dark Canyon Cave (?). Late Wisconsinan: Harris' Pocket.

- Molothrus ater*—Brown-headed Cowbird
Mid Wisconsinan-Holocene: Shelter Cave.
- †*Pyelorrhamphus molothroides*—Thick-billed Cowbird
Mid Wisconsinan-Holocene: Shelter Cave.
- Quiscalus* sp.—Grackles
Late Wisconsinan: Harris' Pocket. Late Wisconsinan/Holocene: Balcony Room.
- Sturnella* sp.—Meadow Larks
Mid Wisconsinan: Pendejo Cave (cf.). Late Wisconsinan: Harris' Pocket.
- Xanthocephalus xanthocephalus*—Yellow-headed Blackbird
Mid Wisconsinan: U-Bar Cave (? gen. et sp.). Mid/late Wisconsinan: Dark Canyon Cave (? gen. et sp.). Late Wisconsinan: Camel Room (? gen. et sp.). Late Wisconsinan/Holocene: Burnet Cave.

FAMILY FRINGILLIDAE, SUBFAMILY CARDUELINAE

- Carpodacus* sp.—Purple Finches
Late Wisconsinan: Bison Chamber; Camel Room (?); Harris' Pocket.
- Carpodacus mexicanus*—House Finch
Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan/Holocene: Conkling Cavern.
- Loxia curvirostra*—Red Crossbill
Late Wisconsinan: Burnet Cave.

CLASS MAMMALIA, ORDER DIDELPHIMORPHIA, FAMILY DIDELPHIDAE

- Didelphis virginianus*—Virginia Opossum
Late Wisconsinan: Brown Sand Wedge.

ORDER XENARTHRA

- †Sloth—Ground Sloth
Pleistocene: Yeso Arroyo. Mid/late Rancholabrean: Mesa Redonda. Late Wisconsinan: McCullum Ranch.

FAMILY DASYPODIDAE

- †*Dasyopus bellus*—Beautiful Armadillo
Late Wisconsinan: Brown Sand Wedge.

FAMILY GLYPTODONTIDAE

- †*Glyptotherium* sp.—Glyptodonts
Blancan/Irvingtonian: Vicinity La Union.
- †*Glyptotherium arizonae*—Gidley's Glyptodont
Blancan/Irvingtonian: T28S R3E (cf.); Vicinity Anapra (cf.). Irvingtonian: Tijeras Arroyo NMMNH 1452 (cf.).

FAMILY MEGALONYCHIDAE

- †*Megalonyx* sp.—Megalonyx Ground Sloths
Late Wisconsinan: Conkling Cavern (?).
- †*Megalonyx wheatleyi*—Wheatley's Ground Sloth
Blancan/Irvingtonian: Vicinity La Union.

FAMILY MEGATHERIIDAE

- †*Nothrotheriops* sp.—Nothrotheriops Ground Sloths
Pleistocene: Manzano Cave.
- †*Nothrotheriops shastensis*—Shasta Ground Sloth
Rancholabrean: Carlsbad Caverns. Early/early-mid Wisconsinan: Rm Vanishing Floor. Mid Wisconsinan: U-Bar Cave. Mid/late Wisconsinan: Animal Fair; Shelter Cave. Late Wisconsinan: Aden Fumerole; Algerita Blossom Cave; Conkling Cavern; Sandia Cave, Folsom Level; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka.

FAMILY MYLODONTIDAE

- †*Glossotherium* sp.—Glossotherium Ground Sloth
Late Wisconsinan: Conkling Cavern (?).
- †*Glossotherium Harlani*—Harlan's Ground Sloth
Blancan/Irvingtonian: Vicinity La Union (cf.). Wisconsinan: Edith Fm. Late Wisconsinan: Blackwater Loc. No. 1, Clovis age.

ORDER INSECTIVORA, FAMILY SORICIDAE

- Cryptotis parva*—Least Shrew
Mid/late Wisconsinan: Animal Fair. Late Wisconsinan: Bison Chamber; Muskox Cave; TT II. Late Wisconsinan/Holocene: Balcony Room; Howell's Ridge Cave.
- Notiosorex crawfordi*—Desert Shrew
Wisconsinan: Big Manhole Cave. Mid Wisconsinan: Pendejo Cave; U-Bar

