

QUATERNARY VERTEBRATES OF NEW MEXICO

ARTHUR H. HARRIS

Laboratory for Environmental Biology, University of Texas at El Paso. El Paso, TX 79968—0519

Abstract—Approximately 346 species of vertebrates are represented in the Quaternary fossil record of New Mexico. These include 4 fishes, 1 salamander, 13 anurans, 5 turtles, 19 lizards, 23 snakes, 119 birds, and 162 mammals. Some 22 taxa are from the vicinity of the Blancan/Irvingtonian transition, 12 most likely are Irvingtonian, and 4 are possibly Illinoian in age. Although many sites are undated with precision, most remaining sites probably are Wisconsinian, with well over 300 taxa.

INTRODUCTION

Although Quaternary vertebrate fossils have long been known from New Mexico, there never has been a comprehensive list for the state. Existence of such a database would greatly simplify research in paleobiology and add depth to studies of modern biogeography and systematics. This paper attempts to establish such a database by bringing together published records for the state and adding unpublished records represented in the collections of the Laboratory for Environmental Biology, University of Texas at El Paso (UTEP), or deposited there by other institutions. Although undoubtedly some published records are

omitted, particularly those from the archaeological literature, this list provides a starting point. Documentation of occurrence necessarily is limited because of the immense number of taxa represented from the state coupled with space limitations for publication. Work in progress eventually should alleviate this situation.

The references include a large proportion of the primary and important secondary literature, but the aim has been to allow entry into the literature rather than to provide an exhaustive bibliography.

Sites (Fig. 1), mostly denoted by an abbreviated name, are given in Appendix I along with: (a) the general time interval represented by

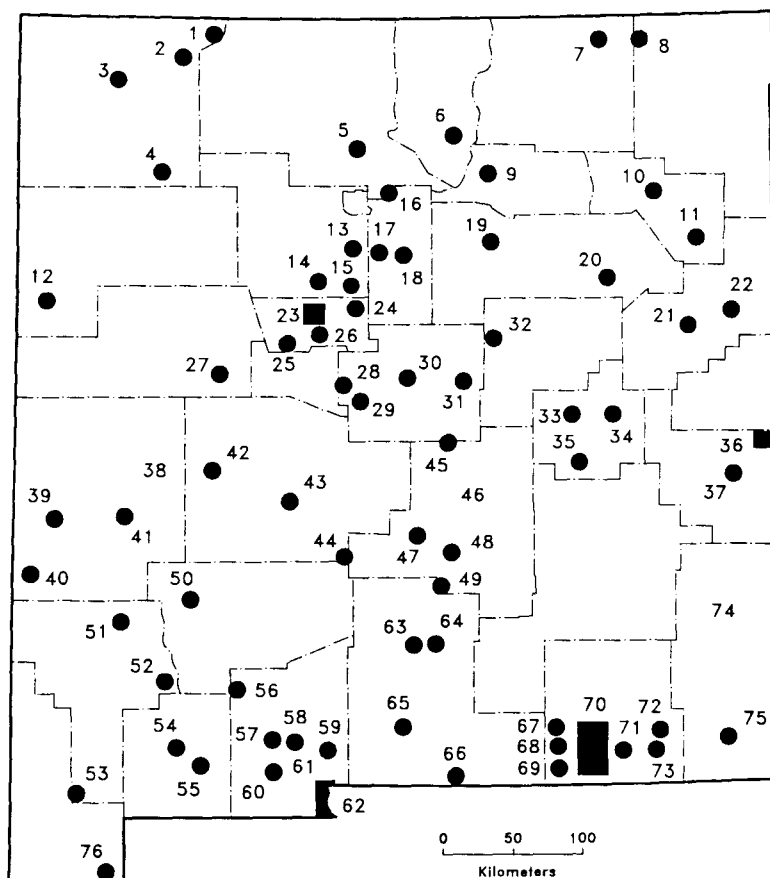


FIGURE 1. Quaternary fossil sites of New Mexico. 1, Oven Site. 2, Bloomfield. 3, NIIP. 4, Atlatl Cave; Chaco Canyon, Sheep Camp Shelter, Una Vida. 5, Abiquiu. 6, Picuris. 7, Raton. 8, Folsom Site. 9, Guadalupita Canyon. 10, Albert. 11, Casados Ranch. 12, Black Rocks. 13, Pena Blanca. 14, Bernalillo. 15, Placitas; Sandia Cave. 16, Santa Cruz; Skull Ridge. 17, New La Bajada Hill. 18, Galisteo. 19, Las Vegas. 20, Rio Conchos. 21, Mesa Redonda. 22, San Jon. 23, Albuquerque; Edith Fm. 24, Tree Springs. 25, Isleta Cave No. 1; Isleta Cave No. 2. 26, Tijeras Arroyo, NMMNH locs. 1452, 1453, 1455. 27, Witch Cave; Whit Cave. 28, Cave in Manzano Mts.; Manzano Cave. 29, Quarai. 30, Estancia Valley; Lucy Site. 31, Encino Blowouts. 32, Milagro. 33, Yesso Arroyo. 34, X-Bar-X Ranch. 35, Dunlap. 36, Anderson Basin No. 1; Anderson Basin No. 2; Blackwater Draw & Loc. No. 1; Brown Sand Wedge; Circus Basin; Gray Sand; Elephant Tusk Basin; McCullum Ranch. 37, Stolle. 38, San Agustin Plains. 39, Tularosa Cave. 40, San Francisco River. 41, Bat Cave. 42, White Lake. 43, San Antonio. 44, Mockingbird Gap. 45, Corona. 46, Lincoln County. 47, Carrizozo. 48, Capitan. 49, Ruidoso. 50, Palomas Creek Cave. 51, Sapillo Creek. 52, Doolittle Cave. 53, Howell's Ridge Cave. 54, Deming. 55, Baldy Peak Cave. 56, Hatch Cemetery. 57, Robledo Cave. 58, Las Cruces; Picacho. 59, Conkling Cavern; Fosberg Cave; Shelter Cave; Wylde Cave. 60, Aden Fumerole, Khulo Site. 61, Mesilla Valley. 62, 3 mi E Anthony; Chamberino; Chamberino to Canutillo; T28S R3E; Vicinity Anapra; Vicinity La Union. 63, Fresnal Canyon. 64, Pumphouse Canyon; Sacramento Mts. 65, Pendejo Cave. 66, Cornudas Mts. 67, Burnet Cave. 68, Hermit's Cave. 69, Omega Cave. 70, Algerita Blossom Cave; Big Manhole Cave; Boyd's Cave; Carlsbad Caverns; Cave NE Dry Cave; Dry Cave sites; Dark Canyon Cave; McKittrick Cave; Muskox Cave; New Cave. 71, Black River. 72, Nash Draw. 73, Gatuna Formation. 74, Lea County. 75, San Simon Sink. 76, U-Bar Cave.

each as given in (or interpretable from) the literature, and (b) one or more references giving entry to the literature (or, if unpublished, to the collection holding the specimens). In some cases, where the literature has made only general statements of age, I have chosen a more restricted time frame based on my understanding of climatic and biotic changes during the later Quaternary. For mixed late Wisconsinan–Holocene sites, certain liberties have been taken in assigning taxa to an interval of time. I have assigned all extinct species to the late Wisconsinan because there seems to be no credible evidence of later survival in New Mexico; I also have assigned some extralimital taxa to the late Wisconsinan and some to the Holocene, based on my judgment as to whether such displacements were likely due to Pleistocene conditions or whether conditions suitable for a given taxon may have lingered on into the Holocene. The remainder of such mixed faunas is assigned the general category of late Wisconsinan/Holocene.

For each taxon, presence by chronologic interval is given in Appendix 2, first from sites dated only to relatively long periods of time (e.g., "Pleistocene," "Rancholabrean") and then in chronologic order from earlier to later time spans. The Pleistocene is considered to have ended at 10,000 B.P. Only a few Holocene records of exceptional interest are noted. The order of presentation of taxa within the table follows the scheme used by Banks et al. (1987): taxa are given in taxonomic order down to family (or, where useful, subfamily), while genera, and species within genera, are arranged alphabetically. Taxonomic order is taken from Page and Burr (1991) for fishes, Banks et al. (1987) for extant tetrapod taxa that survive in the United States, and Kurtén and Anderson (1980) for extinct taxa.

I have taken liberties with some published identifications that I find questionable; some specimens have been examined by me and the published identifications deemed unwarranted, while biogeographic considerations make some published identifications untenable. Some such adjustments have been published in earlier works (e.g., Harris, 1985a), while work in progress will document reasons for other such changes.

Throughout, taxonomic names have been upgraded to my judgment of the currently acceptable names. Horses (*Equus*) pose a particular problem; the usage here follows Winans (1989) except that *Equus occidentalis* is recognized in addition to her five groups. Names commonly used in the later literature are subsumed in her groups as follows:

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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 &
Abiquiu (5)	Pleistocene	Simpson 1963			Gillette 1985, 1987
Aden Fumarole (60)	Wisconsinan/ Holocene	Lull 1929; UTEP	Carrizozo UTEP 187 (47)	Rancholabrean	UTEP
Albert (10)	Pleistocene	Hay 1924; Lucas & Effinger 1991	Casados Ranch (I I)	Cf. Illinoian	McMullen & Zakrzewski 1972
Albuquerque (23)	Pleistocene	Brodkorb 1964	Cave in Manzano Mts. (28)	Pleistocene	Howell 1915
Algerita Blossom Cave UTEP 119 (70)	Late Wisconsinan	UTEP	Cave NE Dry Cave UTEP 186 (70)	Wisconsinan	UTEP
Anderson Basin No. 1 (36)	Late Wisconsinan	Stock & Bode 1936	Chamberino UTEP 106 (62)	Blancan/Irvingtonian	Vanderhill 1986; UTEP
Anderson Basin No. 2 (36)	Late Wisconsinan	Stock & Bode 1936; Wendorf & Hester 1975	Chamberino to Canutillo (62)	Blancan/Irvingtonian	Frick 1937; Teford 1981; Vanderhill 1986
Animal Fair and Animal Fair 18—20 ka, Dry Cave UTEP 22 (70)	Mid/Late Wisconsinan Late Wisconsinan	Campbell & Tonni 1981; Harris 1989	Chaco Canyon (4)	Middle Holocene	Lyman 1983
Atlatl Cave (4)	Late Wisconsinan Mid/Late Holocene	Harris & Carraway, 1993; UTEP Gillespie 1981, 1982, 1984	Charles Parlor, Dry Cave UTEP 22 (70)	Late Wisconsinan	Harris & Mundel 1974; UTEP
Balcony on Lost Valley, Dry Cave UTEP 2 (70)	Early/Mid Wisconsinan	Harris 1980; UTEP	Circus Basin (36)	Late Wisconsinan	Stock & Bode 1936
Balcony Room, Dry Cave UTEP 12 (70)	Late Wisconsinan/ Holocene	Applegarth 19798; Harris 1970; Holman 1970; UTEP	Circus Route UTEP 123 (70)	Late Wisconsinan	UTEP
Baldy Peak Cave UTEP 94 (55)	Late Wisconsinan	Harris 1984a; UTEP	Clovis area (36)	Late Wisconsinan	McDonald 1981
Bat Cave (41)	Late Wisconsinan/ Holocene	Scarborough 1986	Conkling Cavern (59)	Late Wisconsinan	Brattstrom 1961, 1964; Conkling 1932; Davis 1969; Howard 1968, 1971; Howard & Miller 1933; Smartt 1977; UTEP
Bernalillo, N of (14)	Late Wisconsinan	Smartt et al. 1991	Cornudas Mts. (66)	Pleistocene	UTEP
Beyond Bison Chamber, Dry Cave UTEP 3 (70)	Late Wisconsinan/ Holocene	Harris 1970; Holman 1970	Corona (45)	Pleistocene	Hay 1927; Lucas & Effinger 1991
Big Manhole Cave UTEP 120 (70)	Wisconsinan	UTEP 120 (70)	Cueva Las Cruces (58)	Pleistocene	Kurten 1975
Big Manhole Cave UTEP 120 (70)	Late Wisconsinan	UTEP	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
Bison Chamber, Dry Cave UTEP 4 (70)	Late Wisconsinan	Applegarth 1979b; Harris 1970, 1984a; Harris et al. 1973; Holman 1970; UTEP	Deming (54)	Pleistocene	Hay 1924; Lucas 1988; Lucas & Effinger 1991
Black River (71)	Late Wisconsinan/ Holocene	UTEP	Doolittle Cave (52)	Pleistocene/Holocene	Cosgrove 1947
Black Rocks (12)	Pleistocene	Allen 1913; Hay 1924; Lucas & Effinger 1991; McDonald & Ray 1989	Dunlap (35)	Early/Mid Wisconsinan	Hay 1927; Lucas & Effinger 1991
Blackwater Draw & Loc. No. 1 (36)	Late Wisconsinan	Hester 1967; Johnson 1986; Stock & Bode 1936	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
Bloomfield (2)	Wisconsinan	Lucas & Effinger 1991; Stovall 1946	Elephant Tusk Basin (36)	Late Wisconsinan	Stock & Bode 1936
Boyd's Cave UTEP 105 (70)	Late Wisconsinan/ Holocene	UTEP	Encino Blowouts (31)	Pleistocene	Agogino & Stevens 1972
Brown Sand Wedge (36)	Late Wisconsinan	Slaughter 1975	Entrance Chamber, Dry Cave UTEP 24 (70)	Holocene	Harris 1984a; UTEP
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	Estancia Valley (30)	Late Wisconsinan	Bachhuber 1989
Camel Room, Dry Cave UTEP 25 (70)	Late Wisconsinan	Harris & Porter 1980; UTEP	Folsom Site (8)	Late Wisconsinan	Hay & Cook 1930; McDonald 1981
Capitan (48)	Pleistocene	Hay 1924; Lucas & Effinger 1991	Fosberg Cave (59)	Wisconsinan/ Holocene	Brattstrom 1964
			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
Guadalupe 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
			Picuris Pueblo (6)	Wisconsinan	Hargrave & Emslie 1980; UTEP
			Pit N&W Animal Fair, Dry Cave UTEP 122 (70)	Mid/Late Wisconsinan	Harris 1984a, 1985a, 1988; 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	Placitas (15)	Rancholabrean	Hay 1924; Lucas & Effinger 1991; UTEP
			Pumphouse Canyon UTEP 178 (64)	Quaternary	UTEP
			Quarai (29)	Pleistocene	Hibben 1941; Lucas & Effinger 1991
Human Corridor, Dry Cave UTEP 31 (7(1)	Late Wisconsinan	Harris & Porter 1980; UTEP	Raton (7)	Rancholabrean	McDonald 1981
Isleta Cave No. 1 UTEP 41 (25)	Late Wisconsinan/Holocene	Harris 1984a; Harris & Findley 1964; Hibben 1941; UTEP	Rick's Cenote UTEP 28 (70)	Late Wisconsinan	Harris 1984a; UTEP
Isleta Cave No. 2 UTEP 46 (25)	Late Wisconsinan/Holocene	Harris 1984a, Harris & Findley 1964; UTEP	Rio Conchos (20)	Pleistocene	Hay 1924; Lucas & Effinger 1991
Kentucky Club Room, Dry Cave UTEP 177 (70)	Wisconsinan	UTEP	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
Khulo Site UTEP 21 (60)	Holocene	Harris 1984a; Harris & Crews 1983; Smartt 1977			
Las Cruces (58)	Irvingtonian	Kurten & Anderson 1980; Lucas & Effinger 1991; Tedford 1981; Vanderhill 1986	Robledo Cave (57)	Late Wisconsinan/Holocene	Harris 1985a; Van Devender et al. 1976
			Ruidoso UTEP 176 (49)	Rancholabrean	UTEP
			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
Las Vegas (19)	Pleistocene	Hay 1924; Lucas & Effinger 1991			
Lincoln County (46)	Pleistocene		Sacramento Mts. (64)	Pleistocene	Hay 1924; Lucas & Effinger 1991
Lost Valley, Dry Cave UTEP 1, 17 (70)	Early/Mid Wisconsinan	Harris 1980, 1984b; Magish & Harris 1976; UTEP	San Agustin Plains (38)	Wisconsinan	Hay 1924; Lucas & Effinger 1991
Lucy Site (30)	Late Wisconsinan	Agenbroad 1984; Crane & Griffin 1958; Lucas & Effinger 1991	San Antonio Site (43)	Blancan/Pleistocene	Needham 1936; Rea 1980; Tedford 1981
			San Francisco River (40)	Irvingtonian	Tedford 1981
Manzano Cave (28)	Pleistocene	Hibben 1941	San Jon (22)	Late Wisconsinan	Lucas & Effinger 1991; Roberts 1942
Maze NE Entrance Dry Cave UTEP 117 (70)	Wisconsinan	UTEP			
McCullum Ranch (36)	Late Wisconsinan	Haynes & Agogino 1966	San Simon Sink (75)	Wisconsinan	Harris 1985a
McKittrick Cave (70)	Wisconsinan/Holocene	UTEP	Sandia Cave, Folsom Level (15)	Late Wisconsinan	Hibben 1941; Lucas & Effinger 1991
Mesa Redonda (21)	Mid/Late Rancholabrean	Gillette et al. 1985a	Sandia Cave, Sandia Level (15)	Late Wisconsinan	Hibben 1941; Lucas & Effinger 1991
Mesilla Basin (61)	Blancan/Irvingtonian	Vanderhill 1986	Santa Cruz (16)	Pleistocene	Galusha & Blick 1971
Milagro (33)	Pleistocene	Lucas & Effinger 1991	Sapillo Creek (51)	Pleistocene	Wolberg 1980
Mockingbird Gap (44)	Late Wisconsinan	Lucas & Effinger 1991	Sheep Camp Shelter (4)	Late Wisconsinan/Holocene	Betancourt et al. 1983; Gillespie 1982, 1984; Harris 1988
Muskox Cave (70)	Late Wisconsinan	Logan 1981			
Nash Draw UTEP 112 (72)	Quaternary	UTEP	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
New Area, Dry Cave UTEP 133 (70)	Early/Mid Wisconsinan	UTEP			
New Cave (70)	Wisconsinan	Lawrence 1960			
New La Bajada Hill (17)	Wisconsinan	Stearns 1942			
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
Skull Ridge (16)	Pleistocene	Galusha & Blick 1971; Lucas & Effinger 1991
South Chimney, Dry Cave UTEP 7 (70)	Wisconsinan	Harris 1985a
Stalag 17 UTEP 23 (70)	Late Wisconsinan	Harris 1984a; Harris & Porter 1980; UTEP
Stolle (37)	Late Wisconsinan	Agogino 1977
T28S R3E UTEP 97 (62)	Irvingtonian ?	Riley 1984; Vanderhill 1986; UTEP
Tijeras Arroyo NMMNH Loc 1452 (26)	Irvingtonian	Logan 1984; Logan et al. 1984; Lucas & Effinger 1991
Tijeras Arroyo NMMNH Loc 1453 (26)	Irvingtonian	Logan 1984; Logan et al. 1984; Lucas & Effinger 1991
Tijeras Arroyo NMMNH Loc 1455 (26)	Irvingtonian	Logan 1984; Logan et al. 1984; Lucas & Effinger 1991
Tree Springs, Sandia Mts. (24)	Pleistocene	Martin & Guilday 1967
TT II, Dry Cave UTEP 54 (70)	Late Wisconsinan	Harris 1984a; Harris & Porter 1980; UTEP
Tularosa Cave (39)	Wisconsinan/ Holocene	Howell 1915

Locality	Age	References
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
Una Vida (4)	Holocene	Hargrave & Emslie 1980
Vicinity Anapra UTEP 99 (62)	Blancan/Irvingtonian, Irvingtonian	Vanderhill 1986; UTEP
Vicinity La Union UTEP 33 (62)	Blancan/Irvingtonian, Irvingtonian	Riley 1984; Tedford 1981; Vanderhill 1986; UTEP
White Lake, San Agustin Plains (42)	Wisconsinan	UTEP
Whut Cave (27)	Wisconsinan	Smartt & Hafner 1989
Witch Cave (27)	Wisconsinan	Smartt et al. 1990
Wylde Cave (59)	Wisconsinan/ Holocene	Brattstrom 1964
X-Bar-X Ranch (34)	Mid Wisconsinan	Lucas & Effinger 1991
Yeso Arroyo (33)	Pleistocene	Agogino & Stevens 1972

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: Dark Canyon 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. ssp.); 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 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 gracilenta* 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; Saber-tooth 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 prelosus*—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.

Centrocerus 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.
Zenaida sp.—Zenaida Doves
Early/early–mid Wisconsin: Sabertooth Camel Maze (cf.).
Zenaida 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/Holocene: 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/Holocene: Shelter Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: 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 Wisconsin: 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 Wisconsin–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/Holocene: 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 Wisconsin: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze.
- Cyanocitta* sp.—Blue Jays
Early/early-mid Wisconsin: Lost Valley (?); Rm Vanishing Floor. Mid/late Wisconsin: U-Bar Cave (?).
- Gymnorhinus cyanocephalus*—Pinyon Jay
Mid Wisconsin: Pendejo Cave (? gen. et sp.). Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin/Holocene: Conkling Cavern.
- Pica pica*—Black-billed Magpie
Mid Wisconsin: Pendejo Cave. Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin: Animal Fair 18–20 ka; U-Bar Cave.

FAMILY TROGLODYTIDAE

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

FAMILY MUSCICAPIDAE

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

FAMILY MIMIDAE

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

FAMILY LANIIDAE

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

FAMILY EMBERIZIDAE, SUBFAMILY CARDINALINAE

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

SUBFAMILY EMBERIZINAE

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

SUBFAMILY ICTERINAE

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

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

FAMILY FRINGILLIDAE, SUBFAMILY CARDUELINAE

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

CLASS MAMMALIA, ORDER DIDELPHIMORPHIA, FAMILY DIDELPHIDAE

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

ORDER XENARTHRA

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

FAMILY DASYPODIDAE

- †*Dasypus bellus*—Beautiful Armadillo
Late Wisconsin: 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 Wisconsin: 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 Wisconsin: Rm Vanishing Floor. Mid Wisconsin: U-Bar Cave. Mid/late Wisconsin: Animal Fair; Shelter Cave. Late Wisconsin: 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 Wisconsin: Conkling Cavern (?).
- †*Glossotherium Harlani*—Harlan's Ground Sloth
Blancan/Irvingtonian: Vicinity La Union (cf.). Wisconsin: Edith Fm. Late Wisconsin: Blackwater Loc. No. 1, Clovis age.

ORDER INSECTIVORA, FAMILY SORICIDAE

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

Cave. Mid Wisconsinan–Holocene: Shelter Cave. Mid/late Wisconsinan: Dark Canyon Cave. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Bison Chamber; Harris' Pocket; Hermit's Cave; Muskox Cave; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Balcony Room; Baldy Peak Cave; Beyond Bison Chamber; Howell's Ridge Cave; Pendejo Cave.

Sorex sp.—Long-tailed Shrews

Late Wisconsinan: Algerita Blossom Cave; Burnet Cave; U-Bar Cave 13–14 ka; U-Bar Cave 15–18 ka. Late Wisconsinan/Holocene: Pendejo Cave. *Sorex cinereus*—Masked Shrew

Late Wisconsinan: Brown Sand Wedge; Muskox Cave.

Sorex merriami—Merriam's Shrew

Wisconsinan: Big Manhole Cave. Early/early–mid Wisconsinan: Lost Valley. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Dark Canyon Cave. Late Wisconsinan: Animal Fair 18–20 ka; Bison Chamber; Charles Parlor; Harris' Pocket; Muskox Cave; Stalag 17; TT II; U-Bar Cave 14–15 ka (cf.). Late Wisconsinan/Holocene: Balcony Room.

Sorex monticolus—Montane Shrew

Mid Wisconsinan: U-Bar Cave (cf.). Late Wisconsinan: Animal Fair 18–20 ka; Bat Cave; Harris' Pocket; Hermit's Cave; Muskox Cave; TT II. Late Wisconsinan/Holocene: Balcony Room; Baldy Peak Cave.

Sorex nanus—Dwarf Shrew

Wisconsinan: Big Manhole Cave. Late Wisconsinan: Hermit's Cave.

Sorex palustris—Water Shrew

Late Wisconsinan: Muskox Cave.

Sorex preblei—Preble's Shrew

Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Animal Fair 18–20 ka.

ORDER CHIROPTERA, FAMILY PHYLLOSTOMIDAE

†*Desmodus stocki*—Stock's Vampire Bat

Mid Wisconsinan: U-Bar Cave.

FAMILY VESPERTILIONIDAE

Antrozous pallidus—Pallid Bat

Early/early–mid Wisconsinan: Lost Valley. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Dark Canyon Cave. Late Wisconsinan: Muskox Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Howell's Ridge Cave; Isleta Cave No. 1; Pendejo Cave.

Eptesicus fuscus—Big Brown Bat

Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Animal Fair 18–20 ka; Bison Chamber; Harris' Pocket; Muskox Cave; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka. Late Wisconsinan/Holocene: Balcony Room; Carlsbad Cavern; Howell's Ridge Cave.

Lasiurus sp.—Hairy-tailed Bats

Late Wisconsinan/Holocene: Balcony Room.

Lasiurus borealis—Red Bat

Late Wisconsinan/Holocene: Carlsbad Cavern.

Lasiurus cinereus—Hoary Bat

Mid Wisconsinan: Pendejo Cave. Late Wisconsinan: Harris' Pocket. Late Wisconsinan/Holocene: Carlsbad Cavern.

Myotis sp.—Mouse-eared Bats

Mid Wisconsinan: Pendejo Cave. Late Wisconsinan: Algerita Blossom Cave (cf.). Late Wisconsinan/Holocene: Carlsbad Caverns.

Myotis sp. (small)—Small Mouse-eared Bat

Late Wisconsinan: Animal Fair 18–20 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka.

Myotis californicus—California Myotis

Late Wisconsinan: Dry Cave 14–15 ka (?).

Myotis ciliolabrum—Western Small-footed Bat

Mid Wisconsinan: U-Bar Cave.

Myotis evotis—Long-eared Myotis

Late Wisconsinan: Harris' Pocket.

Myotis lucifugus—Little Brown Bat

Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Bison Chamber; Harris' Pocket.

†*Myotis rectidentis*—Straight-toothed Myotis

Late Wisconsinan: Bison Chamber (cf.); Harris' Pocket (cf.). Late Wisconsinan/Holocene: Beyond Bison Chamber (cf.).

Myotis thysanodes—Fringed Myotis

Early/early–mid Wisconsinan: Rm Vanishing Floor (?). Late Wisconsinan: Muskox Cave. Late Wisconsinan/Holocene: Isleta Cave No. 1.

Myotis velifer—Cave Myotis

Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor. Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Animal Fair 18–20 ka; Bison

Chamber; Harris' Pocket; Muskox Cave; TT II (cf.); U-Bar Cave 13–14 ka (cf.); U-Bar Cave 14–15 ka (cf.); U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka (cf.). Late Wisconsinan/Holocene: Balcony Room; Beyond Bison Chamber.

Plecotus sp.—Big-eared Bats

Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor. Mid/late Wisconsinan: Animal Fair. Late Wisconsinan: Bison Chamber; U-Bar Cave 13–14 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Balcony Room.

Plecotus townsendi—Townsend's Big-eared Bat

Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Animal Fair 18–20 ka; Harris' Pocket; Muskox Cave; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka.

FAMILY MOLOSSIDAE

Nyctinomops macrotis—Big Free-tailed Bat

Early/early–mid Wisconsinan: Lost Valley; Sabertooth Camel Maze.

Tadarida sp.—Guano Bats

Late Wisconsinan: Muskox Cave.

Tadarida brasiliensis—Brazilian Free-tailed Bat

Early/early–mid Wisconsinan: Lost Valley (cf.). Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Balcony Room; Carlsbad Caverns.

Tadarida constantinei—Constantine's Free-tailed Bat

Wisconsinan: Carlsbad Caverns; New Cave.

ORDER PRIMATES, FAMILY HOMINIDAE

Homo sapiens—Man

Late Wisconsinan: Human Corridor. Late Wisconsinan/Holocene: Burnet Cave; Conkling Cavern; Isleta Cave No. 2; Omega Cave; U-Bar Cave.

ORDER CARNIVORA, FAMILY CANIDAE

Canis sp.—Dogs

Late Wisconsinan: Bison Chamber (cf.). Late Wisconsinan/Holocene: McKittrick Cave.

Canis sp. (wolf)—Wolf

Late Wisconsinan: Muskox Cave.

†*Canis armbrusteri*—Armbruster's Wolf

Irvingtonian: T28S R3E.

†*Canis dirus*—Dire Wolf

Pleistocene: Santa Cruz. Early/early–mid Wisconsinan: Sabertooth Camel Maze. Mid/late Wisconsinan: Dark Canyon Cave (cf.). Late Wisconsinan: Blackwater Loc. No. 1, Clovis age; Conkling Cavern; Gray Sand; Hermit's Cave; Muskox Cave; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka (cf.).

Canis latrans—Coyote

Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor (cf.). Mid Wisconsinan: Pendejo Cave. Mid Wisconsinan–Holocene: Shelter Cave. Mid/late Wisconsinan: Dark Canyon Cave; NW Talus Slope. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Big Manhole Cave; Blackwater Loc. No. 1, Clovis age; Blackwater Loc. No. 1, Folsom age; Charles Parlor; Gray Sand; Hams' Pocket; Pendejo Cave (cf.); Stalag 17; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsinan/Holocene: Burnet Cave; Conkling Cavern; Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave.

Canis latrans/leporinus—Coyote or Johnson's Coyote

Blancan/Irvingtonian: Chamberino to Canutillo (cf.).

Canis lupus—Gray Wolf

Early/early–mid Wisconsinan: Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsinan: Pendejo Cave. Mid/late Wisconsinan: Dark Canyon Cave; Hampton Court (?); Pit N&W Animal Fair. Late Wisconsinan: Animal Fair 18–20 ka; Blackwater Loc. No. 1, Clovis age; Brown Sand Wedge; Gray Sand; Hermit's Cave; Sandia Cave, Folsom Level (cf.); Stalag 17. Late Wisconsinan/Holocene: Burnet Cave; Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave (cf.).

Urocyon sp.—Gray Foxes

Early/early–mid Wisconsinan: Balcony on Lost Valley (cf.). Late Wisconsinan: U-Bar Cave 18–20 (cf.). Late Wisconsinan/Holocene: Conkling Cavern.

Urocyon cinereoargenteus—Gray Fox

Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Late Wisconsinan: Blackwater Loc. No. 1, Clovis age; Camel Room; U-Bar Cave 15–18 ka. Late Wisconsinan/Holocene: Howell's Ridge Cave; Isleta Cave No. 2; Pendejo Cave.

Urocyon/Vulpes—Gray Foxes or Red Foxes

Mid Wisconsinan–Holocene: Shelter Cave.

Vulpes sp.—Red Foxes

Mid/late Wisconsin: Pit N&W Animal Fair. Late Wisconsin/Holocene: Howell's Ridge Cave.

Vulpes macrotis/velox—Kit Fox or Swift Fox

Mid Wisconsin: Pendejo Cave (cf. gen. et sp.).

Vulpes macrotis—Kit Fox

Mid/late Wisconsin: NW Talus Slope. Late Wisconsin/Holocene: Isleta Cave No. 1; Isleta Cave No. 2.

Vulpes velox—Swift Fox

Rancholabrean: Palomas Creek Cave (cf.). Early/early-mid Wisconsin: Rm Vanishing Floor (cf. gen. et sp.); Sabertooth Camel Maze (cf.). Mid/late Wisconsin: Dark Canyon Cave (cf.); Hampton Court; NW Talus Slope. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Big Manhole Cave; Bison Chamber; Blackwater Loc. No. 1, Clovis age; Camel Room (cf.); Charlies Parlor; Gray Sand; Harris' Pocket; Human Corridor; Stalag 17; TT II. Late Wisconsin/Holocene: Balcony Room; Burnet Cave; Conkling Cavern; Isleta Cave No. 1; Isleta Cave No. 2.

Vulpes vulpes—Red Fox

Late Wisconsin: Brown Sand Wedge (cf.); Camel Room (cf. gen. et sp.). Late Wisconsin/Holocene: Burnet Cave; Isleta Cave No. 1; Isleta Cave No. 2.

FAMILY URSIDAE

†*Arctodus* sp.—Short-faced Bears

Late Wisconsin: Conkling Cavern.

†*Arctodus simus*—Giant Short-faced Bear

Mid Wisconsin: U-Bar Cave. Late Wisconsin: Burnet Cave; Isleta Cave No. 1; Isleta Cave No. 2.

Ursus sp.—Bears

Early/early-mid Wisconsin: Rm Vanishing Floor (cf.); Sabertooth Camel Maze (?). Mid/late Wisconsin: Animal Fair (cf.). Late Wisconsin/Holocene: Balcony Room (?); Pendejo Cave (cf.).

Ursus americanus—Black Bear

Mid Wisconsin: Pendejo Cave; U-Bar Cave. Late Wisconsin: Brown Sand Wedge; Human Corridor; U-Bar Cave 13–14 ka. Late Wisconsin/Holocene: Aden Fumerole; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2.

FAMILY PROCYONIDAE

Bassariscus astutus—Ringtail

Wisconsin: Big Manhole Cave. Early/early-mid Wisconsin: Saber-tooth Camel Maze. Mid Wisconsin: Pendejo Cave (cf. gen. et sp.); U-Bar Cave. Late Wisconsin: Animal Fair 18–20 ka; Harris' Pocket; Muskox Cave; Pendejo Cave; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Baldy Peak Cave; Burnet Cave; Conkling Cavern; Pendejo Cave.

Procyon lotor—Raccoon

Late Wisconsin: Brown Sand Wedge.

FAMILY MUSTELIDAE, SUBFAMILY MUSTELINAE

Mustela sp.—Weasels

Late Wisconsin/Holocene: Conkling Cavern.

Mustela erminea—Ermine

Late Wisconsin/Holocene: Balcony Room.

Mustela frenata—Long-tailed Weasel

Early/early-mid Wisconsin: Lost Valley. Mid Wisconsin: Pendejo Cave. Late Wisconsin: Animal Fair 18–20 ka; Big Manhole Cave; Camel Room (cf.); Harris' Pocket; Human Corridor; Muskox Cave; Sheep Camp Shelter; TT II; U-Bar Cave 14–15; U-Bar Cave 15–18. Late Wisconsin/Holocene: Pendejo Cave.

Mustela nigripes—Black-footed Ferret

Wisconsin: Big Manhole Cave. Late Wisconsin/Holocene: Burnet Cave; Isleta Cave No. 1; Isleta Cave No. 2.

Mustela vison—Mink

Late Wisconsin/Holocene: Isleta Cave No. 2 (cf.).

SUBFAMILY MELINAE

Taxidea sp.—American Badgers

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

Taxidea taxus—Badger

Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid Wisconsin–Holocene: Shelter Cave. Mid/late Wisconsin: Animal Fair; Dark Canyon Cave. Late Wisconsin: Big Manhole Cave; Circus Route; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern; Isleta Cave No. 2.

SUBFAMILY MEPHITINAE

Skunk (small)—Small Skunk

Late Wisconsin: Brown Sand Wedge.

Conepatus sp.—Hog-nosed Skunks

Late Wisconsin: Muskox Cave.

Conepatus mesoleucus—Hog-nosed Skunk

Mid/late Wisconsin: Pit N&W Animal Fair. Late Wisconsin/Holocene: Burnet Cave (cf.).

Mephitis mephitis—Striped Skunk

Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid Wisconsin/Holocene: Shelter Cave. Mid/late Wisconsin: Animal Fair. Late Wisconsin: Algerita Blossom Cave; Anderson Basin No. 1; Big Manhole Cave; Camel Room; Charlies Parlor; Human Corridor; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Balcony Room; Baldy Peak Cave; Conkling Cavern (cf.); Isleta Cave No. 1; Isleta Cave No. 2; Robledo Cave (cf.).

Spilogale sp.—Spotted Skunks

Early/early-mid Wisconsin: Lost Valley. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid Wisconsin–Holocene: Shelter Cave. Mid/late Wisconsin: Animal Fair; Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair. Late Wisconsin: Big Manhole Cave; Muskox Cave; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsin/Holocene: Conkling Cavern; Howell's Ridge Cave; Pendejo Cave.

FAMILY FELIDAE/FAMILY URSIDAE

Felidae/Ursidae—Large Cat or Large Bear

Mid Wisconsin: Pendejo Cave.

FAMILY FELIDAE, SUBFAMILY MACHAIRODONTINAE

†*Smilodon fatalis*—Sabertooth

Late Wisconsin: Blackwater Loc. No. 1, Clovis age; Gray Sand.

†*Smilodon gracilis*—Gracile Sabertooth

Blancan/Irvingtonian: T28S R3E.

SUBFAMILY FELINAE

†*Acinonyx trumani*—American Cheetah

Late Wisconsin: Muskox Cave.

Felis concolor—Mountain Lion

Early/early-mid Wisconsin: Lost Valley (cf.); Rm Vanishing Floor (cf.); Sabertooth Camel Maze. Mid/late Wisconsin: Hampton Court. Late Wisconsin: Muskox Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern; Howell's Ridge Cave; Isleta Caves.

Lynx sp.—Lynxes

Early/early-mid Wisconsin: Sabertooth Camel Maze (?).

Lynx rufus—Bobcat

Blancan/Irvingtonian: Vicinity La Union (?). Irvingtonian: T28S R3E. Early/early-mid Wisconsin: Lost Valley; Rm Vanishing Floor. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid Wisconsin–Holocene: Shelter Cave. Mid/late Wisconsin: Hampton Court; NW Talus Slope; Pendejo Cave. Late Wisconsin: Algerita Blossom Cave; Big Manhole Cave; Human Corridor; Kentucky Club Room; Muskox Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Balcony Room; Burnet Cave; Conkling Cavern (cf.); Isleta Cave No. 1; Isleta Cave No. 2.

Panthera sp.—Roaring Cats

Late Wisconsin: Algerita Blossom Cave (?).

†*Panthera leo atrox*—Lion

Late Wisconsin: Isleta Cave No. 1; Muskox Cave.

Panthera onca—Jaguar

Wisconsin: South Chimney, Dry Cave. Early/early-mid Wisconsin: Rm Vanishing Floor. Mid/late Wisconsin: Pit N&W Animal Fair (cf.).

ORDER PROBOSCIDEA, FAMILY MAMMUTIDAE

†*Mammut americanum*—American Mastodont

Pleistocene: Tree Spring, Sandia Mts. Late Wisconsin: Sandia Cave, Sandia Level.

FAMILY GOMPHOTHERIIDAE

†*Gomphotheriidae*—Gomphotheres

Blancan/Irvingtonian: Vicinity La Union.

†*Cuvieronius* sp.—Cuvier's Gomphotheres

Blancan/Irvingtonian: T28S R3E. Irvingtonian: Las Cruces.

†*Stegomastodon* sp.—Stegomastodont

Irvingtonian: Las Cruces.

FAMILY ELEPHANTIDAE

Elephantidae

Illinoian: Casados Ranch (?).

†*Mammuthus* sp.—Mammoths

Pleistocene: Deming; Encino Blowouts; Milagro; Quarai; Skull Ridge; Yeso Arroyo. Irvingtonian: Las Cruces; San Francisco River; Tijeras Arroyo NMMNH 1453. Wisconsinan: Chavez Quarry; San Agustín Plains; Springer Quarry; Picuris. Late Wisconsinan: Howell's Ridge Cave; Isleta Cave No. 1; Lucy Site; McCullum Ranch; San Jon; Sandia Cave, Folsom Level; Sandia Cave, Sandia Level; Stolle.

†*Mammuthus columbi*—Columbian Mammoth

Pleistocene: Albert; Black Rocks; Corona (cf.); Las Vegas; Pena Blanca; Rio Conchas; Sacramento Mts. Rancholabrean: Carrizozo (cf.); Guadalupita Canyon; Placitas. Mid/late Rancholabrean: Mesa Redonda. Wisconsinan: Bloomfield; Edith Fm. Late Wisconsinan: Anderson Basin No. 2 (cf.); Blackwater Loc. No. 1, Clovis age; Brown Sand wedge; Circus Basin (cf.); Gray Sand; Hermit's Cave; Mockingbird Gap.

†*Mammuthus imperator*—Imperial Mammoth

Pleistocene: Capitan; Galisteo. Irvingtonian: Galisteo; Tijeras Arroyo NMMNH 1455. Mid/late Rancholabrean: X-Bar-X Ranch. Early/early-mid Wisconsinan: Dunlap.

†*Mammuthus meridionalis*—Southern Mammoth

Irvingtonian: Tijeras Arroyo NMMNH 1452; Vicinity La Union (cf.).

ORDER PERISSODACTYLA, FAMILY TAPIRIDAE

Tapirus sp.—Tapirs

Pleistocene: Cornudas Mts. Early/early-mid Wisconsinan: Lost Valley.

†*Tapirus haysii*—Hay's Tapir

Blancan/Irvingtonian: Vicinity La Union.

FAMILY EQUIDAE

Equus sp.—Horses

Pleistocene: Black Rocks: Encino Blowouts; Skull Ridge; Yeso Arroyo. Blancan/Irvingtonian: Chamberino; San Antonio. Irvingtonian: Las Cruces. Rancholabrean: Guadalupita Canyon; Palomas Creek Cave; Placitas. Mid/late Rancholabrean: Mesa Redonda. Illinoian: Fresno Canyon. Early/early-mid Wisconsinan: Lost Valley. Late Wisconsinan: Conkling Cavern; Hermit's Cave; Lucy Site; McCullum Ranch; Muskox Cave; Sheep Camp Shelter; U-Bar Cave 15–18 ka.

†*Equus* sp. (small)—Small Horse

Mid/late Wisconsinan: Shelter Cave.

†*Equus* sp. (large)—Large Horse

Mid/Late Wisconsinan: Shelter Cave.

I†*Equus alaskae*—Mexican Horse

Quaternary: Nash Draw (?). Pleistocene: Sapillo Creek. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Dark Canyon Cave; Hampton Court; NW Talus Slope; Pit N&W Animal Fair. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Balcony Room; Big Manhole Cave; Bison Chamber (cf.); Burnet Cave; Camel Room (cf.); Charlies Parlor; Gray Sand; Harris' Pocket; Howell's Ridge Cave (cf.); Human Corridor; Isleta Cave No. 2 (cf.); Omega Cave; Pendejo Cave; Stalag 17; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka (cf.).

†*Equus francisci*—Stilt-legged Onager

Blancan/Irvingtonian: Chamberino to Canutillo (cf.); T28S R3E (cf.). Late Wisconsinan: Balcony Room; Burnet Cave (cf.); Blackwater Loc. No. 1, Clovis age.

†*Equus laurentius*—Niobrara Horse

Quaternary: Nash Draw (cf.). Illinoian: Casados Ranch. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Dark Canyon Cave; Pit N&W Animal Fair. Late Wisconsinan: Anderson Basin (cf.); Animal Fair 18–20 ka; Balcony Room; Big Manhole Cave; Beyond Bison Chamber (cf.); Bison Chamber; Blackwater Loc. No. 1, Clovis age; Brown Sand Wedge; Burnet Cave; Camel Room; Charlies Parlor; Circus Basin (cf.); Elephant Tusk Basin (cf.); Gray Sand; Harris' Pocket; Human Corridor (?); Isleta Cave No. 1; Isleta Cave No. 2 (cf.); Sandia Cave, Sandia Level (?); Stalag 17; TT II; U-Bar Cave 14–15 (cf.).

†*Equus occidentalis*—Western Horse

Wisconsinan: Edith Fm (cf.). Early/early-mid Wisconsinan: Rm Vanishing Floor. Mid Wisconsinan: U-Bar Cave (cf.). Late Wisconsinan: Animal Fair 18–20 ka (cf.); Balcony Room (?); Charlies Parlor; Human Corridor; Sandia Cave, Folsom Level (cf.).

†*Equus* Species A—Unnamed Horse

Late Wisconsinan: Camel Room.

†*Equus scotti*—Scott's Horse

Blancan/Irvingtonian: Chamberino to Canutillo; T28S R3E; Vicinity La Union; 3 mi E Anthony. Irvingtonian: Tijeras Arroyo NMMNH 1452 (cf.).

ORDER ARTIODACTYLA, FAMILY TAYASSUIDAE

†*Platygonus* sp.—Flat-headed Peccaries

Early/early-mid Wisconsinan: Rm Vanishing Floor (cf.). Late Wisconsinan: Blackwater Loc. No. 1, Clovis age; Gray Sand; Oven Site; Sheep Camp Shelter (cf.).

Tayassu tajacu—Collared Peccary

Mid/late Wisconsinan: Dark Canyon Cave (cf. gen. et sp.).

FAMILY CAMELIDAE

†Camel—New World Camel

Pleistocene: Black Rocks. Late Wisconsinan: McCullum Ranch.

†*Blancocamelus meadi*—Mead's Camel

Blancan/Irvingtonian: T28S R3E.

†*Camelops* sp.—American Camel

Pleistocene: Manzano Cave; Skull Ridge (?). Quaternary: Nash Draw (cf.). Blancan/Irvingtonian: San Antonio; Vicinity La Union. Irvingtonian: Tijeras Arroyo NMMNH 1452 (cf. gen. et sp.). Early/early-mid Wisconsinan: New Area, Dry Cave; Rm Vanishing Floor. Mid Wisconsinan: Pendejo Cave; U-Bar Cave (cf.). Mid/late Wisconsinan: Animal Fair (cf.); Shelter Cave. Late Wisconsinan: Anderson Basin No. 1; Anderson Basin No. 2; Big Man-hole Cave; Brown Sand Wedge; Burnet Cave; Gray Sand; Howell's Ridge Cave (?); Muskox Cave (cf.); Sandia Cave, Folsom Level; Sandia Cave, Sandia Level.

†*Camelops hesternus*—Yesterday's Camel

Blancan/Irvingtonian: Chamberino to Canutillo (cf.) Wisconsinan: Edith Fm. Early/early-mid Wisconsinan: Lost Valley (cf.); Sabertooth Camel Maze (cf.). Late Wisconsinan: Blackwater Loc. No. 1, Clovis age; Camel Room (?); Conkling Cavern; Human Corridor; Isleta Cave No. 1 (cf.); Stalag 17.

†*Gigantocamelus* sp.—Giant Camels

Blancan/Irvingtonian: T28S R3E.

†*Hemiauchenia* sp.—American Llamas

Blancan/Irvingtonian: Vicinity Anapra; Vicinity La Union. Early/early-mid Wisconsinan: Sabertooth Camel Maze. Late Wisconsinan: Bison Chamber; Conkling Cavern; Human Corridor.

†*Hemiauchenia blancoensis*—Blanco Llama

Blancan/Irvingtonian: T28S R3E.

†*Hemiauchenia macrocephala*—Big-headed Llama

Wisconsinan: Big Manhole Cave. Mid Wisconsinan: Pendejo Cave (cf.). Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Blackwater Loc. No. 1, Clovis age; Camel Room; Charlies Parlor; Gray Sand; Isleta Cave No. 2 (cf.); Pendejo Cave (cf.); TT II.

FAMILY CERVIDAE

Cervidae (large)

Late Wisconsinan: Sheep Camp Shelter.

†*Navahoceros* sp.—Mountain Deer

Wisconsinan: Big Manhole Cave (cf.). Late Wisconsinan: Howell's Ridge Cave (?).

†*Navahoceros fricki*—Mountain Deer

Pleistocene: Cueva Las Cruces (or Chamberino to Canutillo). Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Burnet Cave; Hermit's Cave.

Odocoileus sp.—Deer

Blancan/Irvingtonian: Chamberino to Canutillo; T28S R4E. Wisconsinan: San Simon Sink (cf.). Early/early-mid Wisconsinan: Rm Vanishing Floor (?); Sabertooth Camel Maze (cf.). Mid Wisconsinan: U-Bar Cave. Mid Wisconsinan-Holocene: Shelter Cave. Late Wisconsinan: Animal Fair 18–20 ka; Big Manhole Cave; Charlies Parlor; Pendejo Cave; U-Bar Cave 15–18 ka. Late Wisconsinan/Holocene: Baldy Peak Cave.

Odocoileus hemionus—Mule Deer

Wisconsinan: Pumphause Canyon. Mid Wisconsinan: Pendejo Cave (cf.). Mid Wisconsinan-Holocene: U-Bar Cave (cf.). Mid/late Wisconsinan: Animal Fair (cf.). Late Wisconsinan: Brown Sand Wedge; Folsom Site (?); Stalag 17 (?). Late Wisconsinan/Holocene: Aden Fumerole; Burnet Cave.

Odocoileus virginianus—White-tailed Deer

Late Wisconsinan: Blackwater Loc. No. 1, Clovis age; U-Bar Cave 14–15 ka (cf.). Late Wisconsinan/Holocene: Burnet Cave.

FAMILY ANTILOCAPRIDAE

Antilocapridae—Pronghorns

Late Wisconsinan: Gray Sand.

Antilocapra/Stockoceros—Pronghorn or Stock's Pronghorns

Late Wisconsinan: Harris' Pocket.

Antilocapra sp.—Pronghorn

Late Wisconsinan: Algerita Blossom Cave (?); Animal Fair 18–20 ka (cf.); Human Corridor; Muskox Cave (cf.); Stalag 17 (cf.). Late Wisconsinan/

Holocene: Conkling Cavern (cf.); Isleta Cave No. 2 (cf.).

Antilocapra americana—Pronghorn

Early/early-mid Wisconsin: Lost Valley. Late Wisconsin: Bison Chamber; Blackwater Loc. No. 1, Clovis age; Charlies Parlor. Late Wisconsin/Holocene: Beyond Bison Chamber; Burnet Cave (cf.); Isleta Cave No. 1; Pendejo Cave; U-Bar Cave.

†*Capromeryx* sp.—Miniature Pronghorns

Pleistocene: Doolittle Cave. Early/early-mid Wisconsin: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid/late Wisconsin: Animal Fair; Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair; Shelter Cave. Late Wisconsin: Algerita Blossom Cave; Balcony Room (cf.); Blackwater Loc. No. 1, Clovis age; Brown Sand Wedge; Conkling Cavern; Human Corridor; Pendejo Cave; Stalag 17 (cf.); TT II (cf.); U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka (?); U-Bar Cave 18–20 ka.

†*Capromeryx minor*—Diminutive Pronghorn

Late Wisconsin: Pendejo Cave.

†*Stockoceros* sp.—Stock's Pronghorns

Wisconsin: Big Manhole Cave (cf.). Mid Wisconsin: Pendejo Cave. Late Wisconsin: Conkling Cavern; Pendejo Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. (cf.).

†*Stockoceros conklingi*—Conkling's Pronghorn

Mid/late Wisconsin: Dark Canyon Cave (? gen. et sp.); Shelter Cave. Late Wisconsin: Muskox Cave.

†*Stockoceros onusrosagris*—Quentin's Pronghorn

Mid Wisconsin: U-Bar Cave. Late Wisconsin: Burnet Cave; Muskox Cave.

FAMILY BOVIDAE

Bison sp.—Bison

Pleistocene: Encino Blowouts; Lincoln Co.; Skull Ridge. Rancholabrean: Ruidoso. Wisconsin: Edith Fm. Mid/late Wisconsin: U-Bar Cave. Late Wisconsin: Anderson Basin No. 2; Big Manhole Cave; Camel Room; Harris' Pocket; McCullum Ranch; U-Bar Cave 18–20 ka (cf.). Late Wisconsin/Holocene: Black River; Conkling Cavern; Howell's Ridge Cave (cf.); Lucy Site.

†*Bison antiquus*—Ancient Bison

Late Pleistocene: Yeso Arroyo. Late Wisconsin: Blackwater Loc. No. 1, Clovis age; Blackwater Loc. No. 1, Folsom age.

†*Bison antiquus antiquus*—Ancient Bison

Rancholabrean: Clovis area; Lea Co. Late Wisconsin: Bison Chamber (cf.); Brown Sand Wedge; Burnet Cave; Gray Sand; Sandia Cave, Folsom Level; Sandia Cave, Sandia Level; IT II (cf.).

†*Bison antiquus occidentalis*—Western Bison

Late Wisconsin/Holocene: Clovis area; Folsom Site.

Bison—American Bison

Wisconsin: New La Bajada Hill (cf.).

†*Bison latifrons*—Giant Bison

Rancholabrean: Raton. Late Wisconsin: Bernalillo.

†*Bison priscus*—Steppe Bison

Rancholabrean: Clovis area.

Bison/Bos—Bison or Cattle

Late Wisconsin/Holocene: Isleta Caves.

†*Bootherium bombifrons*—Woodland Muskox

Pleistocene: Black Rocks.

†*Eucatherium* sp.—Shrub-oxen

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

†*Eucatherium collinum*—Shrub-ox

Pleistocene: Abiquiu. Late Wisconsin: Burnet Cave; Muskox Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka.

†*Oreamnos*-like bovid—Mountain-goat-like Bovid

Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Muskox Cave.

†*Oreamnos harringtoni*—Harrington's Mountain Goat

Mid Wisconsin: U-Bar Cave.

Ovis sp.—Sheep

Late Wisconsin/Holocene: Isleta Caves.

Ovis canadensis—Bighorn Sheep

Rancholabrean: Palomas Creek Cave. Wisconsin: Bloomfield; Witch Cave. Mid Wisconsin: Pendejo Cave (?). Mid Wisconsin-Holocene: Shelter Cave. Late Wisconsin: Muskox Cave; Charlies Parlor. Late Wisconsin/Holocene: Burnet Cave; Pendejo Cave.

ORDER RODENTIA, FAMILY SCIURIDAE

Squirrel, size *Tamiasciurus*—Red-squirrel-sized Squirrel

Wisconsin: New La Bajada Hill.

Ammospermophilus sp.—Antelope Squirrels

Early/early-mid Wisconsin: Lost Valley.

Ammospermophilus interpres—Texas Antelope Squirrel

Late Wisconsin/Holocene: Pendejo Cave (cf.).

Cynomys sp.—Prairie Dogs

Early/early-mid Wisconsin: Rm Vanishing Floor. Late Wisconsin: Pendejo Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka.

Cynomys (Leucocrossuromys) sp.—White-tailed Prairie Dogs

Late Wisconsin: Harris' Pocket.

Cynomys gunnisoni—Gunnison's Prairie Dog

Quaternary: Hatch Cemetery (?). Mid Wisconsin: Pendejo Cave; U-Bar Cave (cf.). Late Wisconsin: Animal Fair 18–20 ka. Late Wisconsin/Holocene: Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2.

Cynomys ludovicianus—Black-tailed Prairie Dog

Mid/late Wisconsin: Dark Canyon Cave; Pit N&W Animal Fair. Late Wisconsin: Blackwater Loc. No. 1, Clovis age; Brown Sand Wedge; Folsom Site (?). Late Wisconsin/Holocene: Burnet Cave; Conkling Cavern (cf.); Howell's Ridge Cave; Pendejo Cave.

Cynomys mexicanus—Mexican Prairie Dog

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

Marmota sp.—Marmots

Late Wisconsin: Hermit's Cave.

Marmota flaviventris—Yellow-bellied Marmot

Pleistocene: Cave in Manzano Mts. Wisconsin: New La Bajada Hill. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Animal Fair 18–20 ka; Big Manhole Cave; Harris' Pocket; Muskox Cave; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Balcony Room; Baldy Peak Cave; Burnet Cave; Isleta Cave No. 2; Sheep Camp Shelter; Tularosa Cave.

Sciurus carolinensis—Gray Squirrel

Late Wisconsin: Brown Sand Wedge (?).

Spermophilus sp.—Ground Squirrels

Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Folsom Site.

Late Wisconsin/Holocene: Conkling Cavern.

Spermophilus sp. (*S. elegans* size)—Ground Squirrel (size *S. elegans*)

Mid Wisconsin: Pendejo Cave.

Spermophilus elegans—Wyoming Ground Squirrel

Late Wisconsin: Animal Fair 18–20 ka; Charlies Parlor (cf.); Harris' Pocket.

Spermophilus lateralis—Golden-mantled Ground Squirrel

Late Wisconsin: Sheep Camp Shelter (cf.).

Spermophilus (Ictidomys) sp.—Ictidomys Ground Squirrels

Early/early-mid Wisconsin: Lost Valley; Rm Vanishing Floor. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Late Wisconsin: Algerita Blossom Cave; Charlies Parlor; Ti' II. Late Wisconsin/Holocene: Howell's Ridge Cave.

Spermophilus spilosoma—Spotted Ground Squirrel

Mid/late Wisconsin: Animal Fair; Pit N&W Animal Fair (cf.). Late Wisconsin: Pendejo Cave (cf.); U-Bar Cave 14–15 ka (cf.); U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Isleta Cave No. 1

Spermophilus tridecemlineatus—Thirteen-lined Ground Squirrel

Mid/late Wisconsin: Dark Canyon Cave (cf.). Late Wisconsin: Animal Fair 18–20 ka (cf.); Bison Chamber; Harris' Pocket.

Spermophilus variegatus—Rock Squirrel

Early/early-mid Wisconsin: Rm Vanishing Floor. Mid Wisconsin: Pendejo Cave (cf.); U-Bar Cave. Late Wisconsin: Muskox Cave; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Burnet Cave; Pendejo Cave.

Tamias sp.—Chipmunks

Mid/late Wisconsin: Lost Valley. Late Wisconsin: Big Manhole Cave; Muskox Cave; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Conkling Cavern; Sheep Camp Shelter.

Tamias cinereicollis—Gray-collared Chipmunk

Late Wisconsin/Holocene: Baldy Peak Cave (?).

Tamias dorsalis—Cliff Chipmunk

Mid Wisconsin: U-Bar Cave (?).

Tamias minimus—Least Chipmunk

- Mid Wisconsinan: Pendejo Cave. Late Wisconsinan: Bat Cave.
Tamias quadrivittatus—Colorado Chipmunk
 Mid Wisconsinan: Pendejo Cave (?). Late Wisconsinan/Holocene:
 Pendejo Cave (cf.).
Tamiasciurus hudsonicus—Red Squirrel
 Late Wisconsinan: Muskox Cave.

FAMILY GEOMYIDAE

- Geomyidae—Pocket Gophers
 Blacan/Irvingtonian: T28 R3E. Mid Wisconsinan–Holocene: Shelter Cave (?).
Cratogeomys castanops—Yellow-faced Pocket Gopher
 Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsinan: Pendejo Cave. Mid/late Wisconsinan: Dark Canyon Cave; Hampton Court; NW Talus Slope; Pit N&W Animal Fair. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Charlies Parlor; Harris' Pocket; Human Corridor; Pendejo Cave; Stalag 17; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsinan/ Holocene: Burnet Cave; Pendejo Cave. Middle Holocene: NIIP. Late Holocene: NIIP.
Geomys sp.—Eastern Pocket Gophers
 Late Wisconsinan/Holocene: Conkling Cavern; Pendejo Cave.
Geomys arenarius/bursarius—Desert or Plains Pocket Gopher
 Mid Wisconsinan: Pendejo Cave.
Geomys bursarius—Plains Pocket Gopher
 Late Wisconsinan: Blackwater Loc.No. 1, Folsom age; Brown Sand Wedge (cf.).
Thomomys sp.—Western Pocket Gophers
 Wisconsinan: New La Bajada Hill. Late Wisconsinan: U-Bar Cave 13–14 ka.
Thomomys bottae—Botta's Pocket Gopher
 Rancholabrean: Palomas Creek Cave. Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Dark Canyon Cave; NW Talus Slope; Pit N&W Animal Fair. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Bat Cave; Big Manhole Cave; Bison Chamber; Camel Room; Charlies Parlor; Folsom Site; Harris' Pocket; Human Corridor; Muskox Cave (cf.); Pendejo Cave; Stalag 17 (cf.); TT II; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka (cf.); U-Bar Cave 18–20 ka. Late Wisconsinan) Holocene: Balcony Room; Baldy Peak Cave; Burnet Cave (cf.); Conkling Cavern; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2.
Thomomys talpoides—Northern Pocket Gopher
 Mid Wisconsinan: Pendejo Cave. Mid/late Wisconsinan: Dark Canyon Cave. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Bison Chamber; Camel Room; Harris' Pocket; Human Corridor; Pendejo Cave; TT II. Late Wisconsinan/Holocene: Sheep Camp Shelter.
- FAMILY HETEROMYIDAE
- Dipodomys* sp.—Kangaroo Rats
 Late Wisconsinan/Holocene: Conkling Cavern.
Dipodomys (small)—Small Kangaroo Rat
 Pleistocene: Picacho (cf.). Early/early–mid Wisconsinan: Rm Vanishing Floor; Sabertooth Camel Maze.
Dipodomys merriami—Merriam's Kangaroo Rat
 Late Wisconsinan/Holocene: Howell's Ridge Cave; Isleta Caves; Pendejo Cave.
Dipodomys merriami/ordi—Merriam's or Ord's Kangaroo Rat
 Late Wisconsinan: Algerita Blossom Cave; Dry Cave <13 ka; Pendejo Cave.
Dipodomys ordi—Ord's Kangaroo Rat
 Early/early–mid Wisconsinan: Lost Valley. Mid Wisconsinan: Pendejo Cave. Late Wisconsinan: Charlies Parlors (cf.); Human Corridor (cf.); U-Bar Cave (cf.). Late Wisconsinan/Holocene: Burnet Cave; Howell's Ridge Cave; Isleta Cave No. 1; Pendejo Cave; Sheep Camp Shelter.
Dipodomys spectabilis—Banner-tailed Kangaroo Rat
 Early/early–mid Wisconsinan: Lost Valley. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Animal Fair; Dark Canyon Cave (cf.). Late Wisconsinan: Algerita Blossom Cave; Bison Chamber; Human Corridor; Pendejo Cave; TT II; U-Bar Cave 13–14 ka (cf.); U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka (cf.); U-Bar Cave 18–20 ka (cf.). Late Wisconsinan/Holocene: Beyond Bison Chamber; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2.
Perognathus sp.—Pocket Mice
 Early/early–mid Wisconsinan: Lost Valley. Mid/late Wisconsinan: Dark Canyon Cave. Late Wisconsinan: Bat Cave.

- Perognathus* (*Perognathus*) sp.—Silky Pocket Mice
 Early/early–mid Wisconsinan: Rm Vanishing Floor. Mid/late Wisconsinan: Animal Fair. Late Wisconsinan: Algerita Blossom Cave; Bison Chamber; Charlies Parlor; Pendejo Cave; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Beyond Bison Chamber.
Perognathus Species A—Unknown Pocket Mouse
 Mid/late Wisconsinan: Animal Fair.
Perognathus flavus/flavescens—Silky Pocket Mouse/Plains Pocket Mouse
 Mid Wisconsinan: Pendejo Cave.
Perognathus flavus—Silky Pocket Mouse
 Mid Wisconsinan: U-Bar Cave (cf.). Late Wisconsinan: Muskox Cave. Late Wisconsinan/Holocene: Howell's Ridge Cave; Isleta Cave No. 1 (cf.); Isleta Cave No. 2.
Perognathus (Chaetodipus) sp.—Spiny Pocket Mice
 Early/early–mid Wisconsinan: Rm Vanishing Floor. Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: U-Bar Cave 14–15 ka.
Perognathus baileyi—Bailey's Pocket Mouse
 Late Wisconsinan/Holocene: Howell's Ridge Cave (cf.); U-Bar Cave.
Perognathus hispidus—Hispid Pocket Mouse
 Late Wisconsinan: TT II. Late Wisconsinan/Holocene: Beyond Bison Chamber.
Perognathus intermedius—Rock Pocket Mouse
 Late Wisconsinan/Holocene: Isleta Cave No. 1 (cf.); Isleta Cave No. 2.

FAMILY CASTORIDAE

- Castor canadensis*—Beaver
 Irvingtonian: Vicinity La Union.

FAMILY MURIDAE, SUBFAMILY SIGMODONTINAE

- Neotoma* sp.—Woodrats
 Late Wisconsinan: Bat Cave; Blackwater Loc. No. 1, Folsom age; Brown Sand Wedge.
Neotoma albigula—White-throated Woodrat
 Wisconsinan: Big Manhole Cave. Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid/late Wisconsinan: Animal Fair; Dark Canyon Cave; Pit N&W Animal Fair (cf.). Late Wisconsinan: Algerita Blossom Cave; Hams' Pocket; Muskox Cave; Pendejo Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Baldy Peak Cave (cf.); Beyond Bison Chamber; Conkling Cavern; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave.
Neotoma cinerea—Bushy-tailed Woodrat
 Rancholabrean: Palomas Creek Cave. Mid Wisconsinan: Pendejo Cave; U-Bar Cave. Mid Wisconsinan–Holocene: Shelter Cave. Mid/late Wisconsinan: Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair. Late Wisconsinan: Algerita Blossom Cave; Animal Fair 18–20 ka; Big Manhole Cave; Bison Chamber; Camel Room; Charlies Parlor; Harris' Pocket; Human Corridor; Muskox Cave; Pendejo Cave; Stalag 17; TT II; U-Bar Cave 13–14 ka (cf.); U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Baldy Peak Cave; Burnet Cave (cf.); Conkling Cavern; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2; Sheep Camp Shelter.
†*Neotoma findleyi*—Findley's Woodrat
 Early/early–mid Wisconsinan: Lost Valley; Rm Vanishing Floor. Mid Wisconsinan: U-Bar Cave.
Neotoma floridana—Eastern Woodrat
 Mid Wisconsinan: Pendejo Cave (?). Late Wisconsinan: Algerita Blossom Cave; Rick's Cenote (cf.); Stalag 17; TT II (?); U-Bar Cave 14–15 (cf.); U-Bar Cave 15–18 (cf.); U-Bar Cave 18–20 (cf.). Late Wisconsinan/Holocene: Pendejo Cave (cf.).
Neotoma goldmani—Goldman's Woodrat
 Mid/late Wisconsinan: Animal Fair (?).
Neotoma mexicana—Mexican Woodrat
 Mid Wisconsinan: U-Bar Cave. Late Wisconsinan: Muskox Cave; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsinan/Holocene: Baldy Peak Cave; Burnet Cave (cf.); Howell's Ridge Cave; Pendejo Cave.
Neotoma micropus—Southern Plains Woodrat
 Early/early–mid Wisconsinan: Lost Valley. Late Wisconsinan: Bison Chamber (?); Big Manhole Cave; Harris' Pocket (cf.); Muskox Cave; TT II. Late Wisconsinan/Holocene: Isleta Cave No. 1 (?); Isleta Cave No. 2 (?).

†*Neotoma pygmaea*—Pygmy Woodrat

Early/early-mid Wisconsin: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze (cf.).

Neotoma stephensi—Stephen's Woodrat

Mid Wisconsin: U-Bar Cave. Late Wisconsin: U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka.

Onychomys arenicola—Mearns's Grasshopper Mouse

Late Wisconsin/Holocene: Pendejo Cave.

Onychomys leucogaster—Northern Grasshopper Mouse

Wisconsin: Big Manhole Cave. Early/early-mid Wisconsin: Lost Valley. Mid Wisconsin: Pendejo Cave. Mid/late Wisconsin: Dark Canyon Cave; Pit N&W Animal Fair. Late Wisconsin: Animal Fair 18–20 ka; Harris' Pocket; Muskox Cave; Stalag 17; TT II; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Balcony Room; Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave; Sheep Camp Shelter.

Onychomys torridus—Southern Grasshopper Mouse

Mid/late Wisconsin: Muskox Cave. Late Wisconsin/Holocene: Isleta Cave No. 1; Isleta Cave No. 2.

Onychomys torridus-type—Southern Grasshopper Mouse-type

Mid/late Wisconsin: U-Bar Cave. Late Wisconsin/Holocene: Howells Ridge Cave.

Peromyscus sp.—Deer Mice

Wisconsin: Big Manhole Cave; New La Bajada Hill; White Lake. Mid Wisconsin: Pendejo Cave. Mid/late Wisconsin: Dark Canyon Cave; Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave; Bat Cave; Camel Room; Charlies Parlor; Human Corridor; Muskox Cave; Stalag 17; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Conkling Cavern; Isleta Cave No. 1; Pendejo Cave; Sheep Camp Shelter.

Peromyscus boylii—Brush Mouse

Early/early-mid Wisconsin: Lost Valley. Mid Wisconsin: U-Bar Cave (?). Late Wisconsin: Bison Chamber (?).

Peromyscus eremicus—Cactus Mouse

Mid Wisconsin: U-Bar Cave.

Peromyscus leucopus—White-footed Mouse

Late Wisconsin: Brown Sand Wedge (cf.); Harris' Pocket. Late Wisconsin/Holocene: Balcony Room; Beyond Bison Chamber; Bison Chamber.

Peromyscus maniculatus—Deer Mouse

Early/early-mid Wisconsin: Rm Vanishing Floor (?). Mid Wisconsin: U-Bar Cave. Mid/late Wisconsin: Animal Fair (cf.). Late Wisconsin: Animal Fair 18–20 ka (?); Bison Chamber (cf.); Harris' Pocket (cf.). Late Wisconsin/Holocene: Balcony Room (cf.); Beyond Bison Chamber (cf.); Burnet Cave (cf.).

Peromyscus nasutus—Northern Rock Mouse

Early/early-mid Wisconsin: Rm Vanishing Floor (?). Mid Wisconsin: U-Bar Cave. Late Wisconsin: Harris' Pocket.

Peromyscus pectoralis—White-ankled Mouse

Late Wisconsin/Holocene: Beyond Bison Chamber (?).

Peromyscus truei—Piñon Mouse

Early/early-mid Wisconsin: Rm Vanishing Floor (cf.). Mid Wisconsin: U-Bar Cave. Late Wisconsin: Bison Chamber (cf.); Brown Sand Wedge (cf.).

Reithrodontomys sp.—Harvest Mice

Early/early-mid Wisconsin: Rm Vanishing Floor. Mid Wisconsin: Pendejo Cave. Mid/late Wisconsin: Animal Fair; Dark Canyon Cave. Late Wisconsin: Algerita Blossom Cave; Bison Chamber; Human Corridor; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Balcony Room; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave.

Reithrodontomys fulvescens—Fulvous Harvest Mouse

Late Wisconsin: Muskox Cave (cf. gen. et sp.).

Reithrodontomys megalotis—Western Harvest Mouse

Mid Wisconsin: U-Bar Cave (cf.). Late Wisconsin: Brown Sand Wedge (cf.); TT II (cf.). Late Wisconsin/Holocene: Sheep Camp Shelter (cf.).

Sigmodon sp.—Cotton Rats

Early/early-mid Wisconsin: Lost Valley. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Late Wisconsin: Algerita Blossom Cave; Human Corridor; Pendejo Cave; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Howell's Ridge Cave.

Sigmodon hispidus—Hispid Cotton Rat

Late Wisconsin: Brown Sand Wedge; TT II (cf.). Late Wisconsin/Holocene: Balcony Room; U-Bar Cave. Middle Holocene: Atlatl Cave.

Sigmodon ochrognathus—Yellow-nosed Cotton Rat

Late Wisconsin: U-Bar Cave 15–18 ka.

SUBFAMILY ARVICOLINAE

Lemmus curtatus—Sagebrush Vole

Wisconsin: Big Manhole Cave; Whut Cave. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Bison Chamber; Boyd's Cave; Burnet Cave; Camel Room; Charlies Parlor; Harris' Pocket; Howell's Ridge Cave; Human Corridor; Isleta Cave No. 1; Isleta Cave No. 2; Sheep Camp Shelter; Stalag 17; TT II; U-Bar Cave 13–14 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Atlatl Cave; Balcony Room; Pendejo Cave.

Microtus sp.—Voles

Late Wisconsin: U-Bar Cave 13–14 ka. Late Wisconsin/Holocene: Baldy Peak Cave.

Microtus longicaudus—Long-tailed Vole

Rancholabrean: Palomas Creek Cave (?). Mid/late Wisconsin: Dark Canyon Cave. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Bison Chamber; Burnet Cave (cf.); Harris' Pocket; Sheep Camp Shelter; Stalag 17; TT II.

Microtus mexicanus—Mexican Vole

Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid/late Wisconsin: Dark Canyon Cave; Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Bat Cave; Big Manhole Cave; Bison Chamber; Brown Sand Wedge (cf.); Camel Room; Charlies Parlor; Harris' Pocket; Human Corridor; Muskox Cave; Stalag 17; TT II; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Beyond Bison Chamber; Burnet Cave; Conkling Cavern; Howell's Ridge Cave; Pendejo Cave.

Microtus montanus—Montane Vole

Wisconsin: Whut Cave. Mid/late Wisconsin: Shelter Cave. Late Wisconsin: Howell's Ridge Cave.

Microtus ochrogaster—Prairie Vole

Early/early-mid Wisconsin: Lost Valley. Mid/late Wisconsin: Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Bison Chamber; Brown Sand Wedge; Harris' Pocket; Muskox Cave; Stalag 17; TT II; U-Bar Cave 15–18 ka (?). Late Wisconsin/Holocene: Balcony Room. Middle Holocene: Atlatl Cave.

Microtus pennsylvanicus—Meadow Vole

Wisconsin: White Lake. Mid Wisconsin: Pendejo Cave (?); U-Bar Cave. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Bat Cave; Blackwater Loc. No. 1, Clovis age; Brown Sand Wedge; Harris' Pocket; Hermit's Cave; Human Corridor; Muskox Cave; TT II; U-Bar Cave 14–15 ka. Late Wisconsin/Holocene: Burnet Cave; Howell's Ridge Cave; Isleta Cave No. 1 (cf.).

Ondatra zibethicus—Common Muskrat

Wisconsin: White Lake. Late Wisconsin: Animal Fair 18–20 ka; Blackwater Loc. No. 1, Clovis age; Blackwater Loc. No. 1, Folsom age; Brown Sand Wedge; Gray Sand; Harris' Pocket; Muskox Cave. Late Wisconsin/Holocene: Baldy Peak Cave.

Phenacomys intermedius—Heather Vole

Late Wisconsin: Sheep Camp Shelter.

FAMILY ERETHIZONTIDAE

Erethizon dorsatum—Common Porcupine

Wisconsin: Cave NE Dry Cave. Early/early-mid Wisconsin: Rm Vanishing Floor (cf. gen. et sp.). Mid/late Wisconsin: U-Bar Cave. Late Wisconsin: Animal Fair 18–20 ka; Big Manhole Cave; Charlies Parlor; Harris' Pocket; Human Corridor; Muskox Cave; Rick's Cenote. Late Wisconsin/Holocene: Isleta Cave No. 1; Pendejo Cave; Sheep Camp Shelter.

ORDER LAGOMORPHA, FAMILY LEPORIDAE

†*Aluralagus virginiae*—Virginia Rabbit

Blancan/Irvingtonian: T28S R3E; Vicinity La Union.

†*Aztlanolagus agilis*—Aztlan Rabbit

Early/early-mid Wisconsin: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsin: Pendejo Cave; U-Bar Cave. Late Wisconsin: U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka.

Brachylagus idahoensis—Pygmy Rabbit

Late Wisconsin: Isleta Cave No. 2; Sheep Camp Shelter.

Lepus sp.—Jack Rabbits

Mid Wisconsin: U-Bar Cave. Late Wisconsin: Bat Cave; Bison Cham-

ber; Brown Sand Wedge; Folsom Site; Human Corridor; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Baldy Peak Cave; Beyond Bison Chamber; Burnet Cave; Conkling Cave; Sheep Camp Shelter.

Lepus californicus—Black-tailed Jack Rabbit

Early/early–mid Wisconsin: Balcony on Lost Valley; Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsin: Pendejo Cave. Mid Wisconsin/Holocene: Shelter Cave. Mid/late Wisconsin: Hampton Court; Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave (cf.); Big Manhole Cave; Blackwater Loc. No. 1, Clovis age; TT II; U-Bar Cave 13–14 ka (?); U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsin/Holocene: Aden Fumerole; Isleta Cave No. 2; Pendejo Cave.

Lepus townsendi—White-tailed Jack Rabbit

Wisconsin: Maze NE Entrance Dry Cave. Mid Wisconsin: Pendejo Cave (cf.). Mid/late Wisconsin: Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave (cf.); Animal Fair 18–20 ka; Camel Room; Charlies Parlor; Harris' Pocket; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2; Rick's Cenote; Stalag 17; U-Bar Cave (cf.). Late Wisconsin/Holocene: Balcony Room (cf.).

Lepus/Sylvilagus—Jack Rabbit or Cottontail

Blancan/Irvingtonian: T28S R3E (cf.).

Sylvilagus sp.—Cottontails

Early/early–mid Wisconsin: New Area, Dry Cave. Late Wisconsin: Bat Cave. Late Wisconsin/Holocene: Baldy Peak Cave; Beyond Bison Chamber; Sheep Camp Shelter.

Sylvilagus auduboni—Desert Cottontail

Wisconsin: Big Manhole Cave. Early/early–mid Wisconsin: Lost Valley (cf.); Rm Vanishing Floor; Sabertooth Camel Maze. Mid Wisconsin:

Pendejo Cave. Mid/late Wisconsin: Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave; Stalag 17; Pendejo Cave; TT II (cf.); U-Bar Cave 13–14 ka; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Balcony Room; Burnet Cave (?); Conkling Cavern; Isleta Cave No. 1; Isleta Cave No. 2; Howell's Ridge Cave.

Sylvilagus auduboni/floridanus—Desert or Eastern Cottontail
Mid Wisconsin: U-Bar Cave.

Sylvilagus floridanus—Eastern Cottontail

Rancholabrean: Palomas Creek Cave (cf.). Early/early–mid Wisconsin: Lost Valley (cf.). Mid Wisconsin: Pendejo Cave. Late Wisconsin: Camel Room (?); Muskox Cave (cf.); Stalag 17 (?). Late Wisconsin/Holocene: Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave; U-Bar Cave (?).

Sylvilagus floridanus/nuttalli—Eastern or Nuttall's Cottontail

Late Wisconsin: U-Bar Cave 13–14 ka; U-Bar Cave 18–20 ka. Late Wisconsin/Holocene: Burnet Cave.

Sylvilagus nuttalli—Nuttall's Cottontail

Early/early–mid Wisconsin: Lost Valley; Rm Vanishing Floor; Sabertooth Camel Maze (cf.). Mid Wisconsin: Pendejo Cave; U-Bar Cave. Mid/late Wisconsin: Dark Canyon Cave; Hampton Court; Pit N&W Animal Fair. Late Wisconsin: Algerita Blossom Cave; Animal Fair 18–20 ka; Big Manhole Cave; Bison Chamber; Camel Room; Charlies Parlor; Circus Route; Harris' Pocket; Human Corridor; Muskox Cave (cf.); Stalag 17; TT II; U-Bar Cave 14–15 ka; U-Bar Cave 15–18 ka. Late Wisconsin/Holocene: Boyd's Cave; Burnet Cave; Conkling Cavern; Howell's Ridge Cave; Isleta Cave No. 1; Isleta Cave No. 2; Pendejo Cave (cf.).