

**FAUNMAP : a database documenting Late Quaternary distributions of mammal species in the United States / FAUNMAP Working Group ; co-directors and principal authors, Russell W. Graham and Ernest L. Lundelius, Jr. ; compilers, Mary Ann Graham, Ralph F. Stearley, Erich K. Schroeder ; regional collaborators, Elaine Anderson ... [et al.].**

Graham, Russell W.

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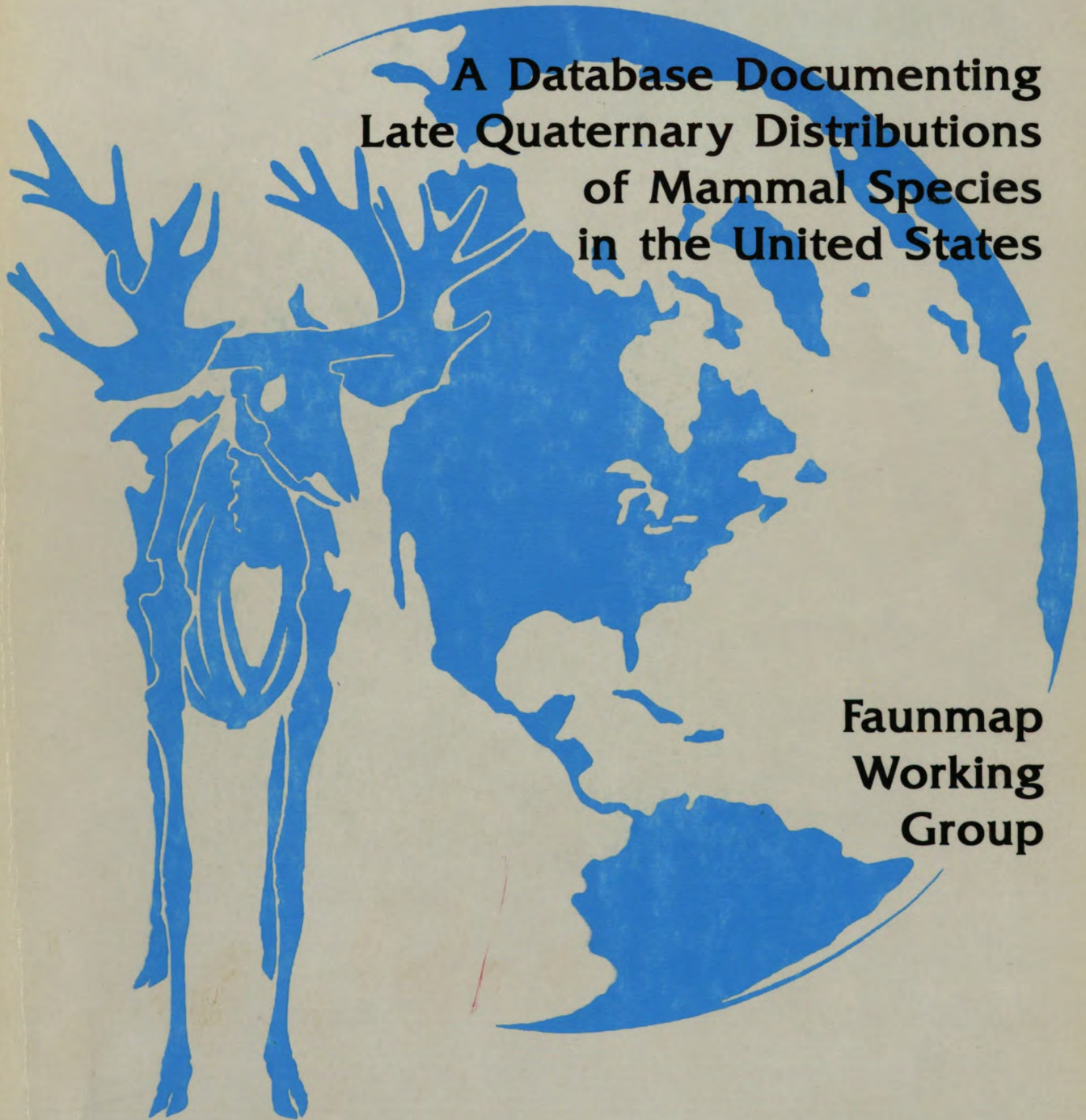
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# FAUNMAP

**A Database Documenting  
Late Quaternary Distributions  
of Mammal Species  
in the United States**



**Faunmap  
Working  
Group**

**Illinois State Museum • Scientific Papers, Vol. XXV, No. 1**

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FAUNMAP Working Group

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# FAUNMAP Database

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## INTRODUCTION

To understand the evolution of continental faunas, it is essential to collect, at a minimum, data on the location, age, and faunal composition of fossil sites. Furthermore, these data should be arranged in a format that allows the different types of data to be related to one another. The ability to map species distributions or faunal assemblages (paleocommunities) through time also facilitates interpretation. One of the first "modern" compilations of fossil vertebrate faunas of North America was "A census of fossil Vertebrata of North America," published by O. P. Hay in *Science* in 1899. This publication was followed by a more comprehensive compendium, the first *Bibliography and Catalogue of the Fossil Vertebrata of North America* (Hay 1902). Another volume of this bibliography was published by Hay in 1929. The *Bibliography of Fossil Vertebrates*, published by the Society of Vertebrate Paleontology, has been continued to the present. These volumes have served primarily as bibliographies of the scientific literature, although cross-referenced indices make them useful compilations of data on vertebrate faunas of all ages and taxonomic groups.

Hay later published a series of volumes focusing on Pleistocene mammals for specific states like Indiana (Hay 1912) and Iowa (Hay 1914), as well as various regions of North America (Hay 1920, 1921, 1923, 1924, 1927). These publications contain descriptions of localities, taxa, and bibliographies, as well as locality maps for various fossil taxa. However, the chronology for most localities is only relative (stratigraphic or biochronologic) because these volumes were published more than 30 to 40 years before the advent of radiocarbon dating. Also, much of the biochronology has been extensively revised (Lundelius *et al.* 1987).

Compilations of Pleistocene mammal faunas with data on faunal composition, localities, age, and other information were continued by Hibbard (1958, 1970) and Hibbard *et al.* (1965) for North America. Numerous publications in the last 40 years have focused on states or specific regions. Ray (1957) provided "A list, bibliography and index of the fossil vertebrates of

Florida" which contained Pleistocene localities and taxa. Domning (1969) produced a similar publication for Louisiana and Mississippi. Lundelius (1967) gave a listing of faunas for the late Pleistocene and Holocene of central Texas. Webb (1974) compiled a chronological list of Quaternary sites with faunal lists for Florida. Compilations of Pleistocene mammal faunas have been published for Missouri (Mehl 1962), Tennessee (Corgan 1976), and Alaska (Péwé 1975, Péwé and Hopkins 1967), to mention a few others. Harris (1985) published a cross-referenced compilation of Pleistocene sites and faunas for the western United States. Semken (1983) provided an extensive list of Holocene mammal localities and references for the eastern and central United States with distribution maps for some species, although this was not a database providing faunal lists or other data for individual localities. Various publications on modern mammals for specific states have also provided lists or discussions of Pleistocene mammals for these states (e.g., Findley *et al.* 1975, Hoffmeister 1989, Lowery 1974). Lyon's (1936) discussion of Pleistocene mammals of Indiana was one of the first and most extensive accounts published in a volume generally dedicated to modern mammals. However, few of these compilations actually document individual faunas, but rather are state-wide tabulations.

Kurtén and Anderson (1980) have provided the most current compilation of Quaternary mammal faunas for North America. Anderson is currently revising this publication. Kurtén and Anderson (1980) provided descriptions of localities and individual taxa for the Blancan, Irvingtonian, and Rancholabrean Land Mammal Ages. The book is cross-referenced and indexed for localities, taxa, and general subjects. In addition, appendices provide data on stratigraphic ranges and radiocarbon dates for individual taxa. Since this volume served as an overview rather than a database, Kurtén and Anderson (1980) did not provide faunal lists for individual sites. They listed 149 Wisconsin localities for North America. Lundelius *et al.* (1983) gave data on 178 mammal faunas with 10 or more species

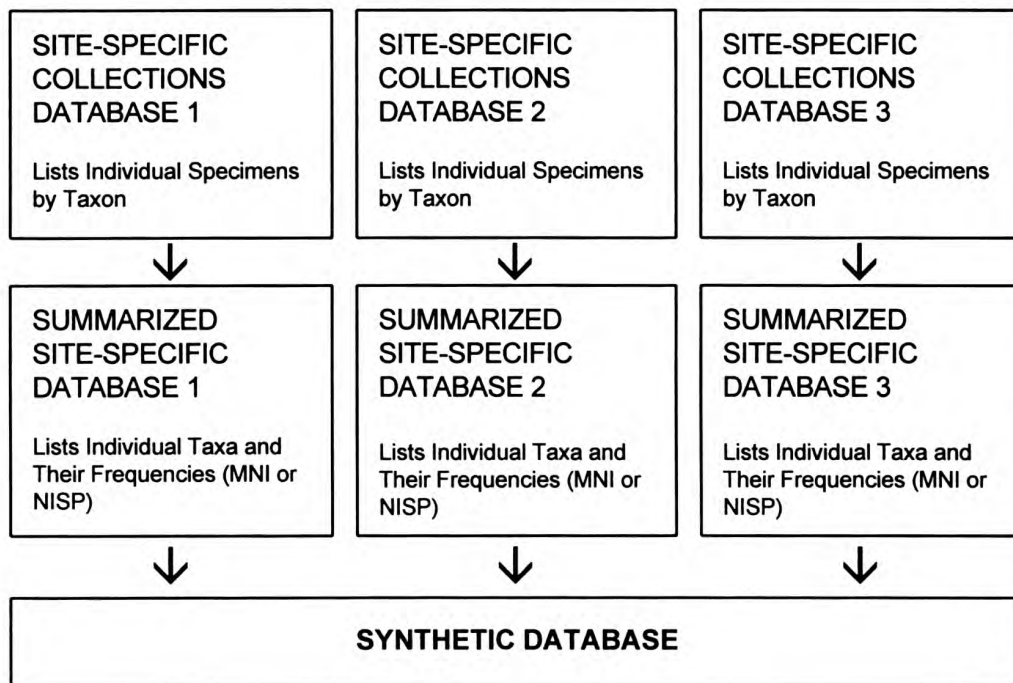
in the age range 20,000–10,000 years Before Present (B.P.) for North America. Graham *et al.* (1987) discussed localities and listed species, radiocarbon dates, depositional environments, and other types of data for 330 late Pleistocene and Holocene faunas from the Great Plains and prairies.

All of these sources are useful, but data are recorded in dissimilar ways, and different types of data are reported. Also, as previously discussed, many summaries cover only certain regions or limited time intervals. In addition, many of these previous compilations lump stratigraphic or excavational units, which makes it difficult to conduct fine-scale temporal analyses. For these reasons, it is difficult to easily integrate these data in their current format. On the other hand, electronic formats (computerized databases) which require a systematic and uniform method of capturing data, “pigeon-holing,” make data much more comparable. Also, an electronic database permits easier and faster access to data and facilitates statistical manipulations of the data.

Since the late 1960s, vertebrate paleontologists have started developing electronic databases for collections (Langston *et al.* 1972). According to Novacek *et al.*

(1991) 20 of the larger collections of fossil vertebrates in the United States have some catalogued specimens on an electronic system. These are databases in the modern sense, which can be searched for information on occurrence of localities and taxa. Although most collection databases contain Quaternary fossils, no one collection contains all such fossils for North America and most do not contain other documentary data (e.g., depositional environments, “absolute” dates, taphonomic data, etc.), which are essential in interpreting the collections. These types of data are usually reported in publications on the collections. Also, there currently is not a standard format for all collections databases, so it is often hard to make specific types of comparisons.

Collections databases are site-specific: they report individual specimens recovered from a site and all of the data for each specimen. In order to use site-specific databases for large-scale faunal syntheses, it is necessary to summarize them (Figure 1). This requires lumping data from the same stratigraphic horizon, excavational level, or other interpretive interval. For example, a site-specific summary database would contain counts of specimens (either by skeletal element, number of



**Figure 1.** Relationships between site-specific collections databases, summarized site-specific databases, and synthetic database.

identified specimens [NISP], or minimum number of individuals [MNI] for an individual taxon for an interpretive interval rather than a list of all specimens. For regional faunal syntheses, all site-specific summary databases can be joined into a synthetic database (Figure 1).

## METHODS

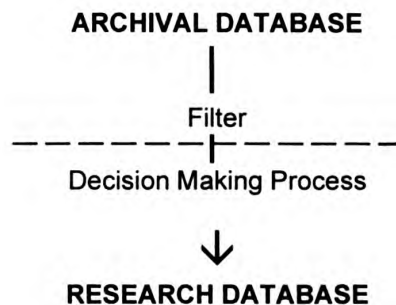
A synthetic electronic database, known as FAUNMAP, has been created to document the late Quaternary distribution of mammal species in the 48 contiguous states of the United States for the last 40,000 years. Selection criteria for incorporation of sites into the FAUNMAP database are that each site must have the following: (1) a known geographic location (at least to the level of county); (2) chronologic controls (e.g., radiometric dates, stratigraphy, biostratigraphy, cultural affiliation) for sites younger than 40,000 years and older than A.D. 1500; and (3) voucher specimens (actual specimen, cast, or photograph) in a public institution. Data for FAUNMAP have been taken from the scientific literature, including selected theses and contract reports. A network of 14 Regional Collaborators, from the United States and Canada, assisted with data selection and validation (Table 1). Although the focus of this project was to collect data for only the contiguous 48 states of the United States, Regional Collaborators from Alaska and Canada also participated so that future data from these regions could be gathered in the same format. Likewise, Lars Werdelin and Joaquin Arroyo-Cabrales, representing the European and Mexican faunal databases, respectively, participated in some of the workshops. Three workshops were held to discuss methods of data collection and database structure, creation of the Research Database, and analysis of the database.

Initially, data were captured on a three-page paper form (Appendix I). The paper forms facilitated coding in remote libraries and laboratories. In addition, they allowed anyone to enter data into the computer without the responsibility of making decisions about the data. When possible, the original faunal list was photocopied and attached to the paper forms. Comments that were not included in the computer files could be written on the paper forms.

Data on the paper forms were then encoded into PARADOX for DOS, initially version 3.5 and then upgraded to 4.0, a relational database management software. The FAUNMAP database consists of 10 files (PARADOX Tables) which record data on site names and identification numbers, location (latitude and longitude), relative and "absolute" (numerical) dates, cul-

tural associations, depositional systems, taphonomic attributes, presence and frequency counts (if given in the literature) of mammal species, and references. For definitions of the data fields see the STRUCTURE OF DATABASE section. The files are linked by the key fields of Machine Number and Analysis Unit. The Machine Number is a unique arbitrary sequential number assigned to each locality as it was entered into the database. It provides a unique identification for each locality. Analysis Units are the smallest subdivisions of a locality (e.g., excavation levels, microstratigraphic units, cultural components, etc.) as defined in the published accounts. For example, if a locality is divided into 15 levels (10 cm each) during excavation, and the data were published in this format, then each level was assigned to a separate Analysis Unit. Each Analysis Unit was assigned a maximum and minimum date based upon the radiocarbon or cultural chronology of the site, and consequently, each Analysis Unit represents a different time slice. Species from individual Analysis Units can be retrieved from the database rather than lumped for the entire faunal assemblage. This procedure results in fine-scale temporal resolution for the FAUNMAP database. All references, more than 2500 citations, have been recorded in an electronic bibliography (see BIBLIOGRAPHY section). Each reference is linked with the locality or localities for which data were derived.

FAUNMAP is composed of Archival and Research databases. The Archival Database contains data as they were originally reported in the literature. The Research Database has been filtered to standardize taxonomy, establish temporal periods, accept and reject "absolute" dates, and to eliminate mixed faunal assemblages (Figure 2). For example, if one author reported *Symbos*



**Figure 2.** Relationship between Archival Database and Research Database.

**Table 1.** List of Regional Collaborators and the states in their regions.

<b>Regional Collaborator</b>	<b>Region</b>	<b>States</b>
Anthony D. Barnosky	Northeast	Maine, New Hampshire, Vermont, Massachusetts, New York, Rhode Island, Delaware, New Jersey, Connecticut, Pennsylvania, Virginia, and West Virginia
S. David Webb	Southeast	North Carolina, South Carolina, Georgia, Florida, Alabama, and Mississippi
H. Gregory McDonald	Eastern Midwest	Ohio, Kentucky, and Tennessee
Russell W. Graham	Central Midwest	Michigan, Indiana, Illinois, and Missouri
Holmes A. Semken, Jr.	Northern Plains	North Dakota, South Dakota, Iowa, Minnesota, and Wisconsin
Larry D. Martin	Central Plains and Southern Ozarks	Nebraska, Kansas, Oklahoma, and Arkansas
Ernest L. Lundelius, Jr.	Southern Plains and Southern Lowland Province	Texas, New Mexico, and Louisiana
Elaine Anderson	Rocky Mountains	Montana, Wyoming, Colorado, and Idaho
Donald K. Grayson	Northwest and Great Basin	Washington, Oregon, and Nevada
George T. Jefferson	Southwest	California, Arizona, and Utah
R. Dale Guthrie	Alaska	Alaska
C. R. Harington	Canada	
Richard E. Morlan	Canada	
C. S. Churcher	Canada	
James A. Burns	Canada	
Michael C. Wilson	Canada	

*cavifrons* from a site and another author recorded *Bootherium bombifrons* from another site, then both taxa were recorded in the Archival Database for their respective sites. Since McDonald and Ray (1989) have suggested that these two taxa are synonyms, only one taxon, *Bootherium bombifrons*, was listed for both sites in the Research Database. The original data were preserved in the Archival Database. Publication of the Archival Database allows investigators to develop their own Research Database, if they disagree with the current one. These changes could not be made if only the Research Database was published. The guidelines for creating the Research Database are given in the CREATION OF FAUNMAP RESEARCH DATABASE section. The Research Database was used to make the maps in Illinois State Museum, *Scientific Papers*, Volume XXV, No. 2.

The primary objective of the FAUNMAP project was to create a database that could be used to investigate specific questions about the evolution of mammalian communities in fluctuating environments during the late Quaternary. Some of the types of questions to be addressed are listed below: Did communities respond to environmental change as tightly linked and highly coevolved assemblages, or did they respond as individual species? Can faunal provinces be defined statistically, and, if so, how do those of the Pleistocene and Holocene compare? Were Pleistocene faunas, and consequently environments, more heterogeneous than those of the Holocene? It is not the purpose of this publication to answer these questions. They will be addressed in subsequent publications. However, these objectives have influenced, to a degree, the design of FAUNMAP.

The FAUNMAP structure has been kept as general as possible so that the database can be used for a variety of purposes. It is impossible to accommodate or anticipate all needs. To this end, there are some limitations. FAUNMAP contains sites that are generally younger than 40,000 years B.P. and older than A.D. 1500. Some sites in the database may be older, but a systematic search was not made for these sites. Likewise, Post-Columbian (< 500 years old) sites have been incorporated as they were found, but a systematic search was not made for these sites either.

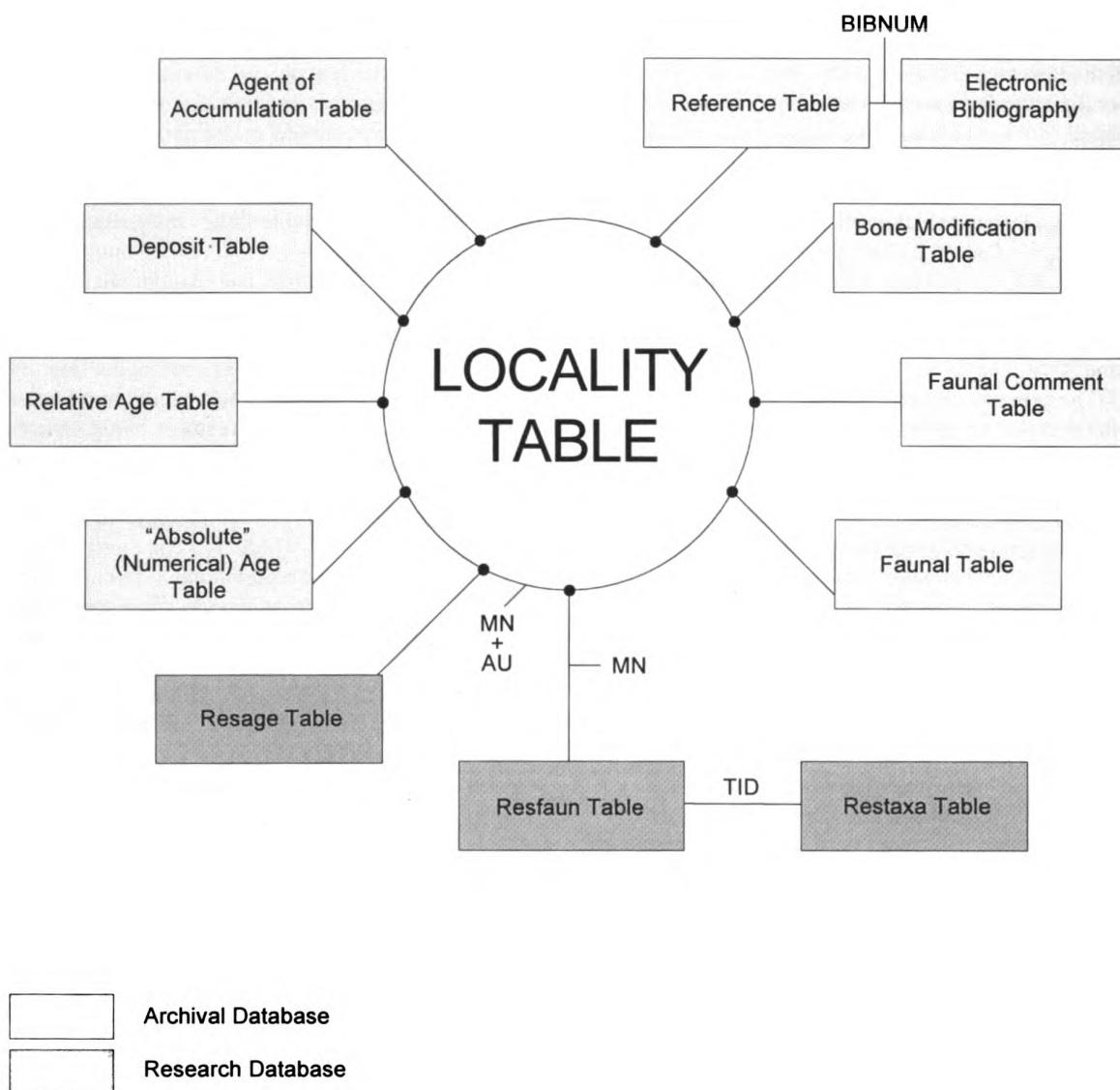
Also, since the purpose of the database was to examine fine-scale temporal changes, it has been restricted to sites that have some type of relatively precise temporal control. For this reason, many sites that were published prior to the 1950s are not incorporated unless they were radiometrically dated later or if other types of temporal controls (e.g., cultural affiliations) could be used. For example, many of the sites docu-

mented by Hay's compendiums of Pleistocene mammals are not incorporated in FAUNMAP because they lack good temporal controls. Therefore, FAUNMAP has some limitations in searching for all known occurrences of a specific taxon, but it should be reasonably complete for all well-dated occurrences within the last 40,000 years. Also, the database is restricted to mammals, but if faunas contained other vertebrate classes, these have been recorded in the database as Aves, Reptilia, Amphibia, and Pisces. Therefore, the database can be searched to find faunas with other animals, and the bibliography will provide the key reference for these data.

The FAUNMAP database can be modified to incorporate other types of data by adding new file structures. For instance, it is possible to create a MORPHOLOGY file to capture different types of morphological data, either quantitative (e.g., length and width) or qualitative (e.g., presence or absence of structures, shape categories, etc.). To link these files with the other data in FAUNMAP, it is necessary to have key fields for Machine Number and Analysis Unit (see DATABASE STRUCTURE section). These files can then be interfaced with a Geographic Information System (GIS) to map various aspects (measurements, frequencies, ratios, etc.) of the morphological attributes. Biochemical data may be treated in the same way. These fields were not defined for the FAUNMAP database because these types of data were not captured and because the structures of these files may vary and be dependent upon the specific needs of the investigation to be carried out.

## DATABASE STRUCTURE

The FAUNMAP database was created in PARADOX for DOS (v. 3.5, 4.0), a relational database management software. The general relationship between PARADOX tables is illustrated in Figure 3, and the composition of the PARADOX tables is listed below. The field name (italicized) is followed in parentheses by an indication of the PARADOX field type (A = Alphanumeric, N = Numeric, S = Short integer [number between -32,767 and 32,767], and D = Date). If the field type is alphanumeric, the number of characters is included. Key fields, which are used to link tables, are identified by an asterisk. The name of the lookup table, generally abbreviated with an acronym, follows inside the parentheses (e.g., STPROV is the acronym for the State/Province lookup table). Then a definition of the field is provided. The composition of each lookup table for the field is also given.



**Figure 3.** Relationship between PARADOX Tables in the FAUNMAP database. The Locality Table is the master table, and all other tables are related to it by the Locality Machine Number (MN). This relationship is represented by lines connecting boxes to the central circle. Each table can stand alone or they can be related to any other table by Machine Number (MN) and Analysis Unit (AU). The relationships between tables are represented by lines along the circle connecting the nodes joining the tables to the circle. The Reference Table is related to the Electronic Bibliography by BIBNUM and the Restaxa Table is related to the Resfaun Table by the Taxon ID code (TID). The Archival and Research databases are identified by different shading. See DATABASE STRUCTURE section for further details.

**Locality Table**

*Machine Number* (N\*): Arbitrary sequential number assigned to each locality by FAUNMAP staff.

*Site Name* (A50): Most commonly used name for locality as given in the literature.

*Alternative Name* (A50): Other name(s) under which locality may be known.

*State/Province* (A2, STPROV): Two letter acronym of state or province in which site is located.

*County* (A15): County name in which site is located.

*Site Number* (A10): Number, other than Machine Number, by which locality is known (e.g., archeological site number, paleontological site number, museum collections site number, etc.).

*Coded By* (A3): Initials of person coding locality.

*Date Coded* (D): Date locality was originally coded.

*Coding Update* (D): Date locality information was updated.

*Comment* (A50): Any short comments for the locality.

*Precision* (A2, L\_PREC): Precision to which locality is plotted.

*Quadrangle* (A30): Name of United States Geological Survey quadrangle map on which site is located.

*Quadrangle Size* (A3): Size of quadrangle map (7.5' and 15').

*Latitude* (N): Two-digit degree, two-digit minute, two-digit second measurement.

*Longitude* (N): Two- or three-digit degree, two-digit minute, two-digit second measurement.

*Altitude* (N): Altitude of locality in meters above mean sea level.

*Repository* (A15): Acronym or abbreviation for institution(s) housing the faunal collection(s).

**Discussion of Locality Table.** The Machine Number was arbitrarily assigned by FAUNMAP staff when coding a locality. It provides a unique identification for each site. Machine Numbers were assigned sequentially as sites were coded, with the first site as 1; the last was 2945. Machine Numbers were never duplicated (database structure does not allow for duplication of key fields). This field and the Analysis Unit field are the key fields linking attribute data in all other PARADOX tables.

Site Name was recorded as the most commonly used name for a locality. When a name was not given in the reference for the site, an archeological or paleontological site number was used, or a name was given by the FAUNMAP staff to identify the site (i.e., Minden City Caribou). If the site was known by two or more names, the most common name was coded into the Site Name

field and the other name(s) were coded into the Alternative Name field.

The State/Province is a two-letter uppercase code taken from the STPROV lookup table (Table 2). Codes for Mexico and Canada are included in this lookup table for future use. The county for each locality was usually given in the reference; however, at times the person coding the site had to use appropriate maps to determine the county in which the site was located from descriptions given in the reference. The full name of the county is given in this field.

Site Number, usually an archeological/paleontological site number or a museum site catalog number, was entered when given in the reference. The Site Number was not assigned by the FAUNMAP staff, and it is not the same as Machine Number. Initials of the person who coded the site were recorded as well as the date. If it was necessary to update any information on the locality, a date was entered in the Coding Update field. The Comment field in this table was meant to include information specific to the locality (i.e., exact location of this site unknown, or R. Graham provided the fauna for this site, etc.).

Site location was established in a variety of ways. In many cases, precise locations (quadrangle, township and range, or latitude and longitude) were actually given in the literature. For all sites with radiocarbon dates that were reported in the journal *Radiocarbon*, the latitude and longitude of the site were reported with the dates. In some cases, the reference may not have listed the precise location of the site, but it might have identified the quadrangle that contained the site. If the precise location was not given in the literature, then an approximate location was determined by the person coding the site based upon descriptions of the site location in the reference (e.g., the site is located five miles west of Springfield, IL). These descriptions were then transferred to index maps for the 48 states, provided by the United States Geological Survey (USGS), showing the location of all quadrangles. These maps were used to determine the quadrangle in which the site was located (e.g., the site five miles west of Springfield, IL, is in the Farmingdale Quadrangle). After determining the quadrangle, the latitude and longitude were taken from a USGS list giving the coordinates for the southeast corners of all USGS quadrangles (e.g., the longitude and latitude for the southeast corner of the Farmingdale Quadrangle are 89° 45' W and 39° 45' N, respectively). These coordinates were used as the location for the site in the FAUNMAP database (e.g., the location of the site five miles west of Springfield, Illinois, is 89° 45' W longitude and 39° 45' N latitude).

The Precision field identifies the precision used in

**Table 2.** Composition of State/Province (L\_STPROV) lookup table (includes Canada and Mexico).

AB	Alberta	Canada	MT	Montana	USA
AG	Aguascalientes	Mexico	MX	Mexico	Mexico
AK	Alaska	USA	NA	Nayarit	Mexico
AL	Alabama	USA	NB	New Brunswick	Canada
AR	Arkansas	USA	NC	North Carolina	USA
AZ	Arizona	USA	ND	North Dakota	USA
BC	British Columbia	Canada	NE	Nebraska	USA
BF	Baffin Island	Canada	NF	Newfoundland	Canada
BJ	Baja California	Mexico	NH	New Hampshire	USA
BS	Baja California Sur	Mexico	NJ	New Jersey	USA
CA	California	USA	NL	Nuevo Leon	Mexico
CH	Chiapas	Mexico	NM	New Mexico	USA
CL	Coahuila	Mexico	NS	Nova Scotia	Canada
CM	Colima	Mexico	NT	Northwest Territories	Canada
CO	Colorado	USA	NV	Nevada	USA
CP	Campeche	Mexico	NY	New York	USA
CT	Connecticut	USA	OA	Oaxaca	Mexico
CU	Chihuahua	Mexico	OH	Ohio	USA
DC	District of Columbia	USA	OK	Oklahoma	USA
DE	Delaware	USA	ON	Ontario	Canada
DF	Distrito Federal	Mexico	OR	Oregon	USA
DU	Durango	Mexico	PA	Pennsylvania	USA
FL	Florida	USA	PE	Prince Edward Island	Canada
FR	Franklin	Canada	PQ	Quebec	Canada
GA	Georgia	USA	PU	Puebla	Mexico
GR	Guerrero	Mexico	QR	Quintana Roo	Mexico
GU	Guanajuato	Mexico	QU	Queretaro	Mexico
HG	Hidalgo	Mexico	RI	Rhode Island	USA
HI	Hawaii	USA	SC	South Carolina	USA
IA	Iowa	USA	SD	South Dakota	USA
ID	Idaho	USA	SI	Sinaloa	Mexico
IL	Illinois	USA	SK	Saskatchewan	Canada
IN	Indiana	USA	SO	Sonora	Mexico
JA	Jalisco	Mexico	SP	San Luis Potosi	Mexico
KE	Keewatin	Canada	TA	Tabasco	Mexico
KS	Kansas	USA	TL	Tlaxcala	Mexico
KY	Kentucky	USA	TM	Tamaulipas	Mexico
LA	Louisiana	USA	TN	Tennessee	USA
LB	Labrador	Canada	TX	Texas	USA
MA	Massachusetts	USA	UT	Utah	USA
MB	Manitoba	Canada	VA	Virginia	USA
MC	Mackenzie	Canada	VE	Veracruz	Mexico
MD	Maryland	USA	VT	Vermont	USA
ME	Maine	USA	WA	Washington	USA
MH	Michoacan	Mexico	WI	Wisconsin	USA
MI	Michigan	USA	WV	West Virginia	USA
MN	Minnesota	USA	WY	Wyoming	USA
MO	Missouri	USA	YC	Yucatan	Mexico
MR	Morelos	Mexico	YU	Yukon	Canada
MS	Mississippi	USA	ZA	Zacatecas	Mexico

recording the location of the site (Table 3). Exact location (E) indicates that the actual latitude and longitude of the site were used in determining its location. Quadrangle Approximate (QA) was coded if the person coding had to determine the quadrangle based upon a locational description in the reference, as described above. Quadrangle Precise (QP) was used if the quadrangle was named in the reference or if township and range were given. QC (quadrangle in the center of the county) was used if the county was known but exact location within the county was not known. In these cases, the latitude and longitude of the quadrangle in the center of the county were coded as the location for the site. Clearly, for some western states with extremely large counties (e.g., New Mexico) this method was not very precise or meaningful.

**Table 3.** Composition of Precision (L\_PREC) lookup table.

E	Exact
QA	Quadrangle Approximate
QP	Quadrangle Precise
QC	Quadrangle in center of county

When exact latitude and longitude were given, they were entered as a two- or three-digit degree, two-digit minute, and two-digit second measurement (i.e., 45°32'5" was entered as 453205). If the latitude and longitude were determined from the USGS quadrangle list, on which only degrees and minutes are recorded, then zeros were added as place holders (i.e., 4532 was entered as 453200).

Altitude was usually given as feet in the references. This was converted to meters by dividing the feet by 3 and multiplying by 0.9 and rounded to the nearest meter (i.e., 4500 ft / 3 × 0.9 = 1350 meters). If altitude was not given in the reference, and the exact location of the site was not known, then the altitude was not entered into the database. The repository or repositories at which the faunal collections for the locality are housed was entered as an acronym in the L\_REPOS table (Table 4). If repositories were not given in the reference, they were not recorded in the database.

#### Reference Table

**Machine Number (N\*):** Arbitrary sequential number assigned to each locality by FAUNMAP staff.

**Reference Number (S\*):** Arbitrary number assigned to reference from which information about the

locality was obtained.

**Bibnum (S):** Arbitrary number assigned to all references in the database.

**UID (A6):** Same as Bibnum (above) but an alphanumeric field with zeros as place holders before integers smaller than 6 digits. Used to key the reference number for PARADOX to an electronic bibliography.

**Author (A50):** Last name of author(s).

**Year (S):** Year of the reference.

**Discussion of Reference Table.** The Reference Number is needed so that more than one reference per locality can be placed in PARADOX (e.g., Machine Number 9 has three citations: reference #1 is Duffield 1970; reference #2 is Graham 1987; and reference #3 is Bender *et al.* 1967). The Bibnum is an arbitrary number given to all references in the database. The UID field is the same as the bibnum except that it is an alphanumeric field with zeros used as place holders. This field was added so that the electronic bibliography could integrate with the PARADOX database. Author(s) and year of publication for the reference were recorded. The complete reference is in an electronic bibliography. The Bibnum field links the references to the electronic bibliography and PARADOX. This feature allows for a list of references from the PARADOX database to be assembled as UID numbers, exported to an ASCII file, and imported to the electronic bibliography that compiles the bibliography and outputs it in the format desired.

#### Faunal Table

**Machine Number (N\*):** Arbitrary sequential number assigned to each locality by FAUNMAP staff.

**Analysis Unit (A30\*):** Name of the smallest subdivision containing fauna.

**Taxon Id (A6\*, L\_TAXA):** Two-letter genus, two-letter species, two-letter subspecies, or three- or four-letter codes for families and orders, etc.

**Id Confidence (A2):** Confidence in the identification of the taxon (Q = confidence questioned, CF = cf., and AF = affinity).

**MNI (S):** Minimum number of individuals counted.

**NISP (N):** Number of identified specimens counted.

**Context (A1):** Context of taxon in Analysis Unit (I = Intrusive, R = Redeposited, A = Articulated).

**Modification (A2, L\_BMOD1):** Bone modification present, taxon specific.

**Table 4.** Composition of Repository (L\_REPOS) lookup table.

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AMNH, American Museum of Natural History	OKAS, Oklahoma Archeological Survey
ANSP, Academy of Natural Sciences, Philadelphia	OKSU, Oklahoma State University
ARCRC, Archeological Resource Center, Rapid City	PITT, University of Pittsburgh
ASWWC, West Wyoming College	PMDWYO, Pioneer Museum Douglas Wyoming
BBHC, Buffalo Bill Historical Society	PPM, Panhandle-Plains Museum
BCPM, British Columbia Provincial Museum	SBCM, San Bernardino County Museum
BLM, Bureau Land Management	SBMNH, Santa Barbara Museum of Natural History
BYU, Brigham Young University	SDSM, South Dakota School of Mines
CDOH, Colorado Department of Highways	SFU, Simon Fraser University
CINN, University of Cincinnati	SI-RBS, Smithsonian Institute-River Basin Survey
CIS, Cranbrook Institute of Science	SIUC, Southern Illinois University-Carbondale
CLEVMNH, Cleveland Museum of Natural History	SJSU, San Jose State University
CMNH, Carnegie Museum of Natural History	SMSP, Science Museum-St. Paul
CMSU, Central Missouri State University	SMUMP, Southern Methodist University Museum of Paleontology
CSC-PA, California State College-Pennsylvania	SUNY, State University of New York
CSU, Chadron State University	TAM, Texas A&M
CU, Columbia University	TARL, Texas Archeological Research Laboratory
DM, Denver Museum of Natural History	TMM, Texas Memorial Museum
DOMNH, Dayton, Ohio, Museum of Natural History	TTM, Texas Tech Museum
FHSM, Sternberg Memorial Museum of Fort Hays	UALP, University of Arizona, Lab of Paleontology
FMNH, Field Museum of Natural History	UAM, University of Alaska Museum
FSM, Florida State Museum	UCD, University of California-Davis
HMTWYO, Homesteader Museum Torrington Wyoming	UCM, University of Colorado Museum
HU, Harvard University	UCMP, University of California, Museum Paleontology
IASU, Iowa State University	UCR, University of California-Riverside
IDOT, Illinois Department of Transportation	UGV, University of Georgia, Vertebrate Paleontology
INSM, Indiana State Museum	UI, University of Illinois
IOWA, University of Iowa	UID, University of Idaho
IOWA-OSA, University of Iowa-Office State Archaeologist	UMICH, University of Michigan
ISHP, Iowa State Historical Preservation Office	UMINN, University of Minnesota
ISM, Illinois State Museum	UMMA, University of Michigan, Museum Anthropology
ISUM, Idaho State Museum	UMMP, University of Michigan, Museum Paleontology
IUPUI, Indiana-Purdue University at Indianapolis	UMNH, Utah Museum of Natural History
KSU, Kansas State University	UMO, University of Missouri
KU, University of Kansas	UMT, University of Montana
KUVP, University of Kansas, Vertebrate Paleontology	UND, University of North Dakota
LACM, Los Angeles County Museum of Natural History	UNE, University of Nebraska
LCDI, Loras College, Dubuque Iowa	UNLV, University of Nevada-Las Vegas
LCIA, Lutheran College, Iowa	UNM, University of New Mexico
LMA, Lowie Museum of Anthropology-Berkeley	UNR, University of Nevada-Reno
LSU, Louisiana State University	UNSM, University of Nebraska State Museum
MALB, Museum of Arid Land Biology	UOK, University of Oklahoma
MNA, Museum of Northern Arizona	UOMNH, University of Oregon Museum Natural History
MNM, Museum of New Mexico	USD, University of South Dakota
MPM, Milwaukee Public Museum	USDAL, University of South Dakota Archeological Lab
MSB, Museum of Southwestern Biology	USNM, National Museum of Natural History
MSM, Maine State Museum	UTENN, University of Tennessee
MSUM, Michigan State University Museum	UTEP, University of Texas-El Paso
MSUWF, Midwestern State University-Wichita Falls	UTUL, University of Tulsa
MTSU, Montana State University	UUVP, University of Utah, Vertebrate Paleontology
MWU, Midwestern University	UVM, University of Vermont
NDHS, North Dakota State Historical Society	UVP, Utah Division State History
NEAR, New England Antiquities Research Association	UWBM, University of Washington Burke Museum
NMC, National Museum of Canada	UWISC, University of Wisconsin
NPS, National Park Service	UWYO, University of Wyoming
NSHS, Nebraska State Historical Society	VILU, Villanova University
NSM, Nevada State Museum	WSU, Washington State University
NTSU, North Texas State University	WTSU, West Texas State University
NYSM, New York State Museum	YPM, Yale Peabody Museum
OHSM, Ohio State Museum	

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**Discussion of Faunal Table.** The Machine Number is the same as defined above. Analysis Units are the smallest subdivision of a locality that contains fauna as documented in the reference. The Analysis Unit is an arbitrary unit which allows for a great deal of flexibility, and since it is a subdivision of a locality, it permits fine-scale resolution of faunal samples. It is a key field used to link all of the attribute data from a specific subdivision of a locality, and consequently, the Analysis Unit cannot be duplicated for a locality. Analysis Units may have the same code for different localities (e.g., the Analysis Unit Zone 1 can be used for different localities as long as each one has a unique Machine Number).

The Analysis Unit can be an excavation level, natural stratigraphic unit, biochronologic zone, cultural unit, soil horizon, or any other arbitrary division. The names for the Analysis Units are encoded as they are reported in the references. For example, the Kimmswick site was excavated in 10-centimeter levels within natural stratigraphic units (Graham *et al.* 1981; Graham and Kay 1988), but Graham and Kay (1988) reported the fauna by natural stratigraphic units (i.e., B1, B2, C1, etc.). The Analysis Units for Kimmswick were coded as B1, B2, C1, etc. In many localities the fauna was reported by excavation levels (e.g., Unit 1, 140–150 cm and Unit 1, 150–160 cm) or for many archeological sites as features (e.g., House 12, fire pit or House 12, midden). All of these subdivisions served as Analysis Units. If divisions of the locality were not made or if the site contained only one Analysis Unit that was not named in the reference, then the Analysis Unit was entered into the database as “assemblage.”

Analysis Units can also be used to identify different collections made from the same site and the same stratigraphic horizon. For example, if two collections were made from the same site at different times, it might be advantageous to retain these as separate entities in the database by assigning them to different Analysis Units. For example, Hay (1924) lists a series of mammal species from the Kimmswick site which came from the same general area that was excavated by Graham. The samples reported by Graham and Kay (1988) have already been assigned to Analysis Units based upon natural stratigraphic units. The Hay (1924) list could be reported as a separate Analysis Unit (i.e., Hay sample). In another case, it might be advantageous, especially for taphonomic considerations, to treat the large animal bone samples and screenwash and flotation fractions as separate entities, even though they have been recovered from the same excavation area and levels. This can be done by assigning each fraction to its own unique Analysis Unit (e.g., Zone 1 large animal

fraction, Zone 1 screenwash fraction, Zone 1 flotation fraction). If all of this information was lumped, it would be impossible to compare the different fractions.

Analysis Units may also refer to sublocalities within a locality. The Laubach Cave fauna (Slaughter 1966) was subdivided into different areas within the cave (i.e., Site I, Site II, Site III [Lundelius *et al.* 1983: p. 317, Table 16-3]). The Analysis Units were, therefore, listed as Site I, Site II, and Site III. If the fauna had been reported by areas and microstratigraphic units, then the Analysis Units would have been a combination of areas and microstratigraphic units (e.g., Zone I Site I, Zone II Site I, Zone I Site II, etc.). However, if each area had been reported as a separate locality with its own latitude and longitude, then each area would have been given a separate Machine Number and would have been entered as a separate locality in the Locality Table. The microstratigraphic units would have then become the Analysis Units (e.g., Zone I Site I, Zone II Site I, Zone I Site II) for each of the localities. The FAUNMAP database simply followed the subdivisions reported in the literature.

The taxa for each Analysis Unit were recorded in the Taxon Id field using a four-letter code (Table 5). Taxon codes were devised by the FAUNMAP staff. The first two letters (upper case) are for the genus, and the last two letters (lower case) identify the species. If necessary, another two-letter code (lower case) can be added for a subspecies. Families and Orders are given in three- or four-letter codes (upper case). The taxon entered for the Analysis Unit must be unique. If *Peromyscus maniculatus* and *Peromyscus cf. maniculatus* were both recorded from the Analysis Unit, only “PEma” was recorded. If an old name was listed in the reference for a taxon, like *Elephas*, then the new name was coded: MM for *Mammuthus*. A comment was then listed (see Faunal Comment Table).

The ID Confidence field records the degree of confidence, expressed by the author of the report, for the identification of a taxon. If the author was uncertain about the identification (e.g., ?*Sorex* sp.), Q was entered in this field. If other degrees of uncertainty were expressed (e.g., cf., aff., etc.), then these codes were recorded. Frequency counts like MNI (minimum numbers of individuals) and NISP (number of identified specimens) were entered in their respective fields. If the taxon was listed as being intrusive, redeposited, or articulated, this information was placed in the Context field. Bone modification was captured in the Modification field using the L\_TMODI lookup table (Table 6). Because this is a synthetic database, information in this field is taxon specific and not by individual specimens (e.g., if the reference lists 23

**Table 5.** Composition of Taxon ID (L\_TAXA) lookup table. This table is used for the Taxon Id field in the Faunal Table as well as the Taxon field in the Absolute (Numerical) Age Table in the Archival Database (hence, plant names are incorporated with the mammal names). FAUNMAP codes appear to the left of the name.

A	Amphibian	CAS	Castoridae	Dlcl	<i>Dipodomys elephantinus</i>
AC	<i>Antilocapra</i> sp.	CAdi	<i>Canis dirus</i>	Dlet	<i>Dipodomys elator</i>
ACE	<i>Acer</i> sp.	CAfa	<i>Canis familiaris</i>	Dlhe	<i>Dipodomys heermanni</i>
ACam	<i>Antilocapra americana</i>	CAla	<i>Canis latrans</i>	Dlin	<i>Dipodomys ingens</i>
AHti	<i>Arctocephalus townsendi</i>	CAlu	<i>Canis lupus</i>	Dlme	<i>Dipodomys merriami</i>
AL	<i>Alces</i> sp.	CAru	<i>Canis rufus</i>	Dlmi	<i>Dipodomys microps</i>
ALal	<i>Alces alces</i>	CChi	<i>Capra hircus</i>	Dlni	<i>Dipodomys nitratoideus</i>
AM	<i>Ammospermophilus</i> sp.	CE	<i>Cervalces</i> sp.	Dlor	<i>Dipodomys ordii</i>
AMhi	<i>Ammospermophilus harrisi</i>	CER	Cervidae	Dlpa	<i>Dipodomys panamintinus</i>
AMin	<i>Ammospermophilus interpres</i>	CETA	CETACEA	Dlsp	<i>Dipodomys spectabilis</i>
AMle	<i>Ammospermophilus leucurus</i>	CEsc	<i>Cervalces scotti</i>	Dlst	<i>Dipodomys stephensi</i>
AMne	<i>Ammospermophilus nelsoni</i>	CH	<i>Choeronycteris</i> sp.	Dlve	<i>Dipodomys venustus</i>
AN	<i>Antrozous</i> sp.	CHIR	CHIROPTERA	DP	<i>Diphylla</i> sp.
ANT	Antilocapridae	CHmx	<i>Choeronycteris mexicana</i>	DPec	<i>Diphylla ecaudata</i>
ANpa	<i>Antrozous pallidus</i>	Cloh	<i>Castoroides ohioensis</i>	DS	<i>Desmodus</i> sp.
AP	<i>Aplodontia</i> sp.	CL	<i>Clethrionomys</i> sp.	DSro	<i>Desmodus rotundus</i>
APL	Apodontiidae	CLca	<i>Clethrionomys californicus</i>	DSst	<i>Desmodus stocki</i>
APru	<i>Aplodontia rufa</i>	CLga	<i>Clethrionomys gapperi</i>	DUG	Dugongidae
AR	<i>Arctodus</i> sp.	CLru	<i>Clethrionomys rutilus</i>	DX	<i>Dicrostonyx</i> sp.
ARTI	ARTIODACTYLA	CM	<i>Camelops</i> sp.	DXhu	<i>Dicrostonyx hudsonius</i>
ARpr	<i>Arctodus pristinus</i>	CMhe	<i>Camelops hesternus</i>	DXtq	<i>Dicrostonyx torquatus</i>
ARsi	<i>Arctodus simus</i>	CMhf	<i>Camelops huerfanensis</i>	DXtr	<i>Dicrostonyx groenlandicus</i>
AX	<i>Alopex</i> sp.	CMka	<i>Camelops kansanus</i>	DY	<i>Dasyus</i> sp.
AXla	<i>Alopex lagopus</i>	CMmi	<i>Camelops minidokae</i>	DYbe	<i>Dasyus bellus</i>
AZag	<i>Aztanolagus agilis</i>	CMtr	<i>Camelops traviswhitei</i>	DYno	<i>Dasyus novemcinctus</i>
B	Aves	CN	<i>Condylura</i> sp.	ECco	<i>Euceratherium</i>
BAS	Bassariscidae	CNca	<i>Condylura cristata</i>	ED	<i>Euderma</i> sp.
BBta	<i>Bos taurus</i>	CO	<i>Conepatus</i> sp.	EDEN	EDENTATA
BCex	<i>Blastocerus extraneus</i>	COle	<i>Conepatus leuconotus</i>	EDma	<i>Euderma maculatum</i>
BI	<i>Bison</i> sp.	COme	<i>Conepatus mesoleucus</i>	EGbs	<i>Erignatus barbatus</i>
BIal	<i>Bison alleni</i>	CP	<i>Capromeryx</i> sp.	ELE	Elephantidae
BIan	<i>Bison antiquus</i>	CPme	<i>Capromeryx mexicana</i>	EMru	<i>Eremotherium rusconii</i>
BIanoc	<i>Bison antiquus/occidentalis</i>	CPmi	<i>Capromeryx minor</i>	EN	<i>Enhydra</i> sp.
BIbi	<i>Bison bison</i>	CR	<i>Castor</i> sp.	ENlu	<i>Enhydra lutris</i>
BIch	<i>Bison chaneyi</i>	CRI	Cricetidae	EP	<i>Eptesicus</i> sp.
BIla	<i>Bison latifrons</i>	CRca	<i>Castor canadensis</i>	EPH	<i>Ephedra</i>
BIoc	<i>Bison occidentalis</i>	CS	<i>Cryptotis</i> sp.	EPfs	<i>Eptesicus fuscus</i>
BIpr	<i>Bison priscus</i>	CSpa	<i>Cryptotis parva</i>	EQ	<i>Equus</i> sp.
BIta	<i>Bison taylori</i>	CUal	<i>Cuon alpinus</i>	EQU	Equidae
BL	<i>Blarina</i> sp.	CV	<i>Cervus</i> sp.	EQca	<i>Equus caballus</i>
BLba	<i>Blarina brevicauda</i>	CVca	<i>Cervus canadensis</i>	EQcl	<i>Equus calobatus</i>
BLcs	<i>Blarina carolinensis</i>	CVna	<i>Cervus nannodes</i>	EQcm	<i>Equus complicatus</i>
BLhp	<i>Blarina hylophaga</i>	CWus	<i>Callorhinus ursinus</i>	EQco	<i>Equus conversidens</i>
BLki	<i>Blarina kirtlandi</i>	CY	<i>Cynomys</i> sp.	EQex	<i>Equus excelsus</i>
BLtl	<i>Blarina telmalestes</i>	CYgu	<i>Cynomys gunnisoni</i>	EQfr	<i>Equus francisi</i>
BOV	Bovidae	CYle	<i>Cynomys leucurus</i>	EQft	<i>Equus fraternus</i>
BObo	<i>Bootherium bombifrons</i>	CYlu	<i>Cynomys ludovicianus</i>	EQgi	<i>Equus giganteus</i>
BR	<i>Brachyprotoma</i> sp.	CYpa	<i>Cynomys parvidens</i>	EQhe	<i>Equus hemionus</i>
BRbr	<i>Brachyprotoma brevimala</i>	CZca	<i>Cystophora cristata</i>	EQlm	<i>Equus lambei</i>
BRob	<i>Brachyprotoma obtusata</i>	DE	<i>Didelphis</i> sp.	EQme	<i>Equus mexicanus</i>
BS	<i>Bassariscus</i> sp.	DEL	Delphinidae	EQni	<i>Equus niobrarensis</i>
BSas	<i>Bassariscus astutus</i>	DES	Desmodontidae	EQoc	<i>Equus occidentalis</i>
BSso	<i>Bassariscus sonoiensis</i>	DEva	<i>Didelphis virginianus</i>	EQpa	<i>Equus parastylidens</i>
BY	<i>Baiomys</i> sp.	DI	<i>Dipodomys</i> sp.	EQpc	<i>Equus pacificus</i>
BYty	<i>Baiomys taylori</i>	DID	Didelphidae	EQsc	<i>Equus scotti</i>
CA	<i>Canis</i> sp.	Dlag	<i>Dipodomys agilis</i>	EQta	<i>Equus tau</i>
CAM	Camelidae	Dlca	<i>Dipodomys californicus</i>	ER	<i>Erethizon</i> sp.
CAN	Canidae	Dlde	<i>Dipodomys deserti</i>	ERE	Erethizontidae
CARN	CARNIVORA	Dlds	<i>Dipodomys deserti/spectabilis</i>	ERdo	<i>Erethizon dorsatum</i>

Table 5. (continued)

ESH	Eschrichtidae	Lleg	<i>Lasiurus ega</i>	Mlti	<i>Microtus townsendii</i>
ESro	<i>Eschrichtius robustus</i>	Llgo	<i>Lasiurus golliheri</i>	MIxa	<i>Microtus xanthognathus</i>
ETjs	<i>Eumetopias jubatus</i>	Llin	<i>Lasiurus intermedius</i>	MK	<i>Mictomys</i> sp.
EU	<i>Eumops</i> sp.	Llse	<i>Lasiurus seminolus</i>	ML	<i>Mylohyus</i> sp.
EUgl	<i>Eumops glaucinus</i>	LO	<i>Liomys</i> sp.	MLfs	<i>Mylohyus fossilis</i>
EUpe	<i>Eumops perotis</i>	LOir	<i>Liomys irroratus</i>	MLna	<i>Mylohyus nasutus</i>
EUun	<i>Eumops underwoodi</i>	LP	<i>Leptonycteris</i> sp.	MM	<i>Mammuthus</i> sp.
FEL	Felidae	LPni	<i>Leptonycteris nivalis</i>	MMco	<i>Mammuthus columbi</i>
FRA	<i>Fraxinus</i>	LRR	Larren	MMex	<i>Mammuthus exilis</i>
FS	<i>Felis</i> sp.	LS	<i>Lepus</i> sp.	MMim	<i>Mammuthus imperator</i>
FSam	<i>Felis amnicola</i>	LSal	<i>Lepus alleni</i>	MMjf	<i>Mammuthus jeffersonii</i>
FSat	<i>Felis atrox</i>	LSam	<i>Lepus americanus</i>	MMpr	<i>Mammuthus primigenius</i>
FSca	<i>Felis canadensis</i>	LScf	<i>Lepus californicus</i>	MNam	<i>Mammut americanum</i>
FSco	<i>Felis concolor</i>	LSeu	<i>Lepus europaeus</i>	MO	<i>Mormoops</i> sp.
FSdo	<i>Felis cattus</i>	LSti	<i>Lepus townsendii</i>	MOL	Molossidae
FSon	<i>Felis onca</i>	LStm	<i>Lepus timidus</i>	MOR	Mormoopidae
FSpa	<i>Felis pardalis</i>	LU	<i>Lutra</i> sp.	MOme	<i>Mormoops megalophylla</i>
FSru	<i>Felis rufus</i>	LUca	<i>Lutra canadensis</i>	MR	<i>Myocastor</i> sp.
FSwi	<i>Felis wiedi</i>	LY	<i>Lasionycteris</i> sp.	MRcp	<i>Myocastor coypus</i>
FSya	<i>Felis yagouaroundi</i>	LYnv	<i>Lasionycteris noctivagans</i>	MS	<i>Mus</i> sp.
GE	<i>Geomys</i> sp.	M	Mollusca	MSmu	<i>Mus musculus</i>
GEO	Geomyidae	MA	<i>Martes</i> sp.	MT	<i>Marmota</i> sp.
GEar	<i>Geomys arenarius</i>	MAM	Mammutidae	MTca	<i>Marmota caligata</i>
GEbu	<i>Geomys bursarius</i>	MAMM	Mammal	MTfl	<i>Marmota flaviventris</i>
GEpe	<i>Geomys personatus</i>	MARS	MARSUPIALIA	MTmx	<i>Marmota monax</i>
GEpi	<i>Geomys pinetus</i>	MAam	<i>Martes americana</i>	MTol	<i>Marmota olympus</i>
GL	<i>Glaucomys</i> sp.	MAno	<i>Martes nobilis</i>	MTvn	<i>Marmota vancouverensis</i>
GLY	Glyptodontidae	MApe	<i>Martes pennanti</i>	MU	<i>Mustela</i> sp.
GLsa	<i>Glaucomys sabrinus</i>	MC	<i>Macrotrus</i> sp.	MUR	Muridae
GLvo	<i>Glaucomys volans</i>	MCCA	<i>Macrotrus californicus</i>	MUS	Mustelidae
GOME	<i>Globicephala melaena</i>	MD	<i>Microdipodops</i> sp.	MUer	<i>Mustela erminea</i>
GSha	<i>Glossotherium harlani</i>	MDme	<i>Microdipodops megacephalus</i>	MUev	<i>Mustela eversmanni</i>
GU	<i>Gulo</i> sp.	MDpa	<i>Microdipodops pallidus</i>	MUfr	<i>Mustela frenata</i>
GUgu	<i>Gulo gulo</i>	ME	<i>Mephitis</i> sp.	MUma	<i>Mustela macrondon</i>
GYfl	<i>Glyptotherium floridanum</i>	MEG	Megalonychidae	MUni	<i>Mustela nigripes</i>
GYme	<i>Glyptotherium mexicanum</i>	MEma	<i>Mephitis macroura</i>	MUnv	<i>Mustela nivalis</i>
HCgs	<i>Halichoerus grypus</i>	MEme	<i>Mephitis mephitis</i>	MUvi	<i>Mustela vison</i>
HDgi	<i>Hydrodamalis gigas</i>	MG	<i>Megalonyx</i> sp.	MWan	<i>Mirounga angustirostris</i>
HE	<i>Hemiauchenia</i> sp.	MGA	Megatheriidae	MWla	<i>Mirounga leonina</i>
HET	Heteromyidae	MGjf	<i>Megalonyx jeffersonii</i>	MX	<i>Miracinonyx</i> sp.
HEbl	<i>Hemiauchenia blancoensis</i>	MHtr	<i>Monachus tropicalis</i>	MXtr	<i>Miracinonyx trumani</i>
HEma	<i>Hemiauchenia macrocephala</i>	MI	<i>Microtus</i> sp.	MY	<i>Myotis</i> sp.
HHsa	<i>Homo sapiens</i>	MIab	<i>Microtus abbreviatus</i>	MYO	Myocastoridae
HMse	<i>Homotherium serum</i>	MIch	<i>Microtus chrotorrhinus</i>	MYau	<i>Myotis austroriparius</i>
HOse	<i>Holmesina septentrionalis</i>	MIco	<i>Microtus coronarius</i>	MYca	<i>Myotis californicus</i>
HTon	<i>Heterogeomys onerosus</i>	MIcp	<i>Microtus californicus</i>	MYev	<i>Myotis evotis</i>
HYD	Hydrochoeridae	MIlo	<i>Microtus longicaudus</i>	MYgr	<i>Myotis grisescens</i>
HYho	<i>Hydrochoerus holmesi</i>	MIlomo	<i>Microtus longicaudus/montanus</i>	MYke	<i>Myotis keenii</i>
IDph	<i>Idionycteris phyllotis</i>	MIld	<i>Microtus meadensis</i>	MYle	<i>Myotis leibii</i>
INSE	INSECTIVORA	MIld	<i>Microtus meadensis</i>	MYlu	<i>Myotis lucifugus</i>
JUN	<i>Juniperus</i> sp.	MIme	<i>Microtus mexicanus</i>	MYmg	<i>Myotis magnamolaris</i>
KOG	Kogiidae	MIli	<i>Microtus miurus</i>	MYre	<i>Myotis rectidentis</i>
KObr	<i>Kogia breviceps</i>	MIlo	<i>Microtus montanus</i>	MYso	<i>Myotis sodalis</i>
LA	<i>Lagurus</i> sp.	MIoc	<i>Microtus ochrogaster</i>	MYth	<i>Myotis thysanodes</i>
LAR	<i>Larix</i> sp.	MIocpi	<i>Microtus ochrogaster/pinetorum</i>	MYve	<i>Myotis velifer</i>
LAcu	<i>Lagurus curtatus</i>	MIoe	<i>Microtus oeconomus</i>	MYvo	<i>Myotis volans</i>
LE	<i>Lemmus</i> sp.	MIor	<i>Microtus oregoni</i>	MYyu	<i>Myotis yumanensis</i>
LEP	Leporidae	MIpa	<i>Microtus paroperarius</i>	NA	<i>Nasua</i> sp.
LEsi	<i>Lemmus sibiricus</i>	MIpe	<i>Microtus pennsylvanicus</i>	NAna	<i>Nasua narica</i>
LI	<i>Lasiurus</i> sp.	MIpi	<i>Microtus pinetorum</i>	NCfe	<i>Nyctinomops femorosaccus</i>
LIbo	<i>Lasiurus borealis</i>	MIri	<i>Microtus richardsoni</i>	NCma	<i>Nyctinomops macrotis</i>
LICI	<i>Lasiurus cinereus</i>			NE	<i>Neotoma</i> sp.

Table 5. (continued)

NEal	<i>Neotoma albigula</i>	PCfa	<i>Phoca fasciata</i>	PL	<i>Plecotus</i> sp.
NEci	<i>Neotoma cinerea</i>	PCga	<i>Phoca groenlandica</i>	PLrf	<i>Plecotus rafinesquii</i>
NEfi	<i>Neotoma findleyi</i>	PCLa	<i>Phoca largha</i>	PLtr	<i>Plecotus tetralophodon</i>
NEfl	<i>Neotoma floridana</i>	PCva	<i>Phoca vitulina</i>	PLtw	<i>Plecotus townsendii</i>
NEfu	<i>Neotoma fuscipes</i>	PDfl	<i>Podomys floridanus</i>	PM	<i>Pampatherium</i> sp.
NEgo	<i>Neotoma goldmani</i>	PE	<i>Peromyscus</i> sp.	PNpn	<i>Phocoena phocoena</i>
NEle	<i>Neotoma lepida</i>	PERI	PERISSODACTYLA	POP	<i>Populus</i> sp.
NEme	<i>Neotoma mexicana</i>	PEan	<i>Peromyscus anyapahensis</i>	POmi	<i>Palaeolama mirifica</i>
NEmi	<i>Neotoma micropus</i>	PEat	<i>Peromyscus attwateri</i>	PPpr	<i>Pteronotus pristinus</i>
NEpm	<i>Neotoma pygmaea</i>	PEbo	<i>Peromyscus boylii</i>	PR	<i>Procyon</i> sp.
NEst	<i>Neotoma stephensi</i>	PEcf	<i>Peromyscus californicus</i>	PRIM	PRIMATE
NF	<i>Neofiber</i> sp.	PEco	<i>Peromyscus cochrani</i>	PRO	Procyonidae
NFal	<i>Neofiber alleni</i>	PEcr	<i>Peromyscus crinitus</i>	PROB	PROBOSCIDEA
NFle	<i>Neofiber leonardi</i>	PEcu	<i>Peromyscus cumberlandensis</i>	PRlr	<i>Procyon lotor</i>
NHpi	<i>Neochoceros pinckneyi</i>	PEdi	<i>Peromyscus difficilis</i>	PS	<i>Parascalops</i> sp.
NOsh	<i>Nothrotheriops shastense</i>	PEer	<i>Peromyscus eremicus</i>	PSbi	<i>Parascalops breweri</i>
NS	<i>Neurotrichus</i> sp.	PEgo	<i>Peromyscus gossypinus</i>	PT	<i>Platygonus</i> sp.
NSgi	<i>Neurotrichus gibbsii</i>	PEim	<i>Peromyscus imperfectus</i>	PTco	<i>Platygonus compressus</i>
NVfr	<i>Navahoceros fricki</i>	PEle	<i>Peromyscus leucopus</i>	PTve	<i>Platygonus vetus</i>
NX	<i>Notiosorex</i> sp.	PElm	<i>Peromyscus leucopus/</i> <i>maniculatus</i>	R	Reptile
NXci	<i>Notiosorex crawfordi</i>	PEma	<i>Peromyscus maniculatus</i>	RA	<i>Rattus</i> sp.
NY	<i>Nycticeius</i> sp.	PEme	<i>Peromyscus merriami</i>	RAno	<i>Rattus norvegicus</i>
NYhu	<i>Nycticeius humeralis</i>	PEne	<i>Peromyscus nesodytes</i>	RAra	<i>Rattus rattus</i>
NZ	<i>Napeozapus</i> sp.	PEok	<i>Peromyscus oklahomensis</i>	RG	<i>Rangifer</i> sp.
NZin	<i>Napeozapus insignis</i>	PEpe	<i>Peromyscus pectoralis</i>	RGar	<i>Rangifer arcticus</i>
OA	<i>Oreamnos</i> sp.	PEpo	<i>Peromyscus polionotus</i>	RGta	<i>Rangifer tarandus</i>
OAAm	<i>Oreamnos americanus</i>	PEsi	<i>Peromyscus sitkensis</i>	RODE	RODENTIA
OAhr	<i>Oreamnos harringtoni</i>	PEtr	<i>Peromyscus truei</i>	RY	<i>Reithrodontomys</i> sp.
OB	<i>Ovibos</i> sp.	PG	<i>Perognathus</i> sp.	RYfu	<i>Reithrodontomys fulvescens</i>
OBmd	<i>Ovibos moschatus</i>	PGal	<i>Perognathus alticola</i>	RYhs	<i>Reithrodontomys humilis</i>
OC	<i>Ochotona</i> sp.	PGam	<i>Perognathus amplus</i>	RYme	<i>Reithrodontomys megalotis</i>
OCH	Ochotonidae	PGbi	<i>Perognathus baileyi</i>	RYmt	<i>Reithrodontomys montanus</i>
OCco	<i>Ochotona collaris</i>	PGcf	<i>Perognathus californicus</i>	RYrv	<i>Reithrodontomys raviventris</i>
OCpr	<i>Ochotona princeps</i>	PGfa	<i>Perognathus fasciatus</i>	SA	<i>Scalopus</i> sp.
OD	<i>Odocoileus</i> sp.	PGfl	<i>Perognathus flavescens</i>	SAL	<i>Salix</i> sp.
ODO	Odobenidae	PGfo	<i>Perognathus formosus</i>	SAAq	<i>Scalopus aquaticus</i>
ODhe	<i>Odocoileus hemionus</i>	PGfv	<i>Perognathus flavus</i>	SB	<i>Symbos</i> sp.
ODva	<i>Odocoileus virginianus</i>	PGfx	<i>Perognathus fallax</i>	SBcv	<i>Symbos cavifrons</i>
OH	<i>Ochrotomys</i> sp.	PGhs	<i>Perognathus hispidus</i>	SC	<i>Sciurus</i> sp.
OHnu	<i>Ochrotomys nuttalli</i>	PGim	<i>Perognathus intermedius</i>	SCI	Sciuridae
OI	Ovibovini	PGin	<i>Perognathus inornatus</i>	SCaa	<i>Sciurus aberti/arizonensis</i>
ON	<i>Onychomys</i> sp.	PGlo	<i>Perognathus longimembris</i>	SCab	<i>Sciurus aberti</i>
ONle	<i>Onychomys leucogaster</i>	PGme	<i>Perognathus merriami</i>	SCal	<i>Sciurus alleni</i>
ONtd	<i>Onychomys torridus</i>	PGne	<i>Perognathus nelsoni</i>	SCar	<i>Sciurus arizonensis</i>
OR	<i>Oryzomys</i> sp.	PGpa	<i>Perognathus parvus</i>	SCca	<i>Sciurus carolinensis</i>
ORpa	<i>Oryzomys palustris</i>	PGpe	<i>Perognathus penicillatus</i>	SCgr	<i>Sciurus griseus</i>
OSrs	<i>Odobenus rosmarus</i>	PGsp	<i>Perognathus spinatus</i>	SCni	<i>Sciurus niger</i>
OT	<i>Ondatra</i> sp.	PGxa	<i>Perognathus xanthonotus</i>	SCny	<i>Sciurus nayaritensis</i>
OTA	Otariidae	PH	<i>Phenacomys</i> sp.	SGfu	<i>Sangamona fugitiva</i>
OTan	<i>Ondatra annectens</i>	PHE	Phocidae	SGta	<i>Saiga tatarica</i>
OTzi	<i>Ondatra zibethicus</i>	PHO	Phocidae	SI	<i>Sigmodon</i> sp.
OV	<i>Ovis</i> sp.	PHY	Phyllostomidae	SIRE	SIRENIA
OVar	<i>Ovis aries</i>	PHal	<i>Phenacomys albipes</i>	SIba	<i>Sigmodon bakeri</i>
OVca	<i>Ovis canadensis</i>	PHin	<i>Phenacomys intermedius</i>	SIfl	<i>Sigmodon fulviventer</i>
OVcaca	<i>Ovis canadensis catclawensis</i>	PHlo	<i>Phenacomys longicaudus</i>	SIhi	<i>Sigmodon hispidus</i>
OVda	<i>Ovis dalli</i>	PI	<i>Pipistrellus</i> sp.	SIoc	<i>Sigmodon ochrognathus</i>
OYcu	<i>Oryctolagus cuniculus</i>	PIC	<i>Picea</i> sp.	SL	<i>Spilogale</i> sp.
P	Pisces	PIN	<i>Pinus</i> sp.	SLgr	<i>Spilogale gracilis</i>
PA	<i>Pappogeomys</i> sp.	PINN	Pinnepedia	SLpu	<i>Spilogale putorius</i>
PAM	Pampatherinae	PIhs	<i>Pipistrellus hesperus</i>	SM	<i>Smilodon</i> sp.
PAca	<i>Pappogeomys castanops</i>	PIsf	<i>Pipistrellus subflavus</i>	SMfa	<i>Smilodon fatalis</i>
PC	<i>Phoca</i> sp.			SMfl	<i>Smilodon floridanus</i>

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Table 5. (continued)

SN	<i>Synaptomys</i> sp.	SXmv	<i>Sorex monticolus/vagrans</i>	THbu	<i>Thomomys bulbivorus</i>
SNau	<i>Synaptomys australis</i>	SXns	<i>Sorex nanus</i>	THma	<i>Thomomys mazama</i>
SNbo	<i>Synaptomys borealis</i>	SXos	<i>Sorex ornatus</i>	THmi	<i>Thomomys microdon</i>
SNco	<i>Synaptomys cooperi</i>	SXpa	<i>Sorex pratensis</i>	THmo	<i>Thomomys monticola</i>
SOR	Soricidae	SXpi	<i>Sorex preblei</i>	THor	<i>Thomomys orientalis</i>
SP	<i>Spermophilus</i> sp.	SXps	<i>Sorex pacificus</i>	THsc	<i>Thomomys scudderi</i>
SPar	<i>Spermophilus armatus</i>	SXpt	<i>Sorex palustris</i>	THta	<i>Thomomys talpoides</i>
SPbe	<i>Spermophilus beecheyi</i>	SXsc	<i>Sorex scottensis</i>	THto	<i>Thomomys townsendii</i>
SPbi	<i>Spermophilus beldingi</i>	SXsi	<i>Sorex sinuosus</i>	THum	<i>Thomomys umbrinus</i>
SPbl	<i>Spermophilus beldingi/elegans</i>	SXti	<i>Sorex trowbridgii</i>	THve	<i>Thomomys vetus</i>
SPbr	<i>Spermophilus brunneus</i>	SXts	<i>Sorex tenellus</i>	TN	<i>Tanupolama</i> sp.
SPco	<i>Spermophilus columbianus</i>	SXtu	<i>Sorex tundrensis</i>	TOhy	<i>Torontoceros hypogaeus</i>
SPel	<i>Spermophilus elegans</i>	SXvs	<i>Sorex vagrans</i>	TP	<i>Tapirus</i> sp.
SPfr	<i>Spermophilus franklinii</i>	SY	<i>Sylvilagus</i> sp.	TPca	<i>Tapirus californicus</i>
SPla	<i>Spermophilus lateralis</i>	SYaf	<i>Sylvilagus audubonii/floridanus</i>	TPco	<i>Tapirus copei</i>
SPme	<i>Spermophilus mexicanus</i>			TPha	<i>Tapirus haysii</i>
SPmo	<i>Spermophilus mohavensis</i>	SYaq	<i>Sylvilagus aquaticus</i>	TPme	<i>Tapirus merriami</i>
SPpy	<i>Spermophilus parryi</i>	SYau	<i>Sylvilagus audubonii</i>	TPtn	<i>Tapirus tennesseae</i>
SPri	<i>Spermophilus richardsonii</i>	SYba	<i>Sylvilagus bachmani</i>	TPve	<i>Tapirus veroensis</i>
SPsp	<i>Spermophilus spilosoma</i>	SYfl	<i>Sylvilagus floridanus</i>	TRI	Trichechidae
SPte	<i>Spermophilus tereticaudus</i>	SYid	<i>Sylvilagus idahoensis</i>	TRfl	<i>Tremarctos floridanus</i>
SPti	<i>Spermophilus townsendii</i>	SYle	<i>Sylvilagus leonensis</i>	TS	<i>Tamiasciurus</i> sp.
SPtr	<i>Spermophilus tridecemlineatus</i>	SYnu	<i>Sylvilagus nuttallii</i>	TSdi	<i>Tamiasciurus douglasii</i>
SPva	<i>Spermophilus variegatus</i>	SYpt	<i>Sylvilagus palustris</i>	TShu	<i>Tamiasciurus hudsonicus</i>
SPwi	<i>Spermophilus washingtoni</i>	SYtr	<i>Sylvilagus transitionalis</i>	TT	<i>Tetrameryx</i> sp.
SS	<i>Sus</i> sp.	TA	<i>Tamias</i> sp.	TTsh	<i>Tetrameryx shuleri</i>
SSsc	<i>Sus scrofa</i>	TAL	Talpidae	TUtr	<i>Tursiops truncatus</i>
ST	<i>Stockoceros</i> sp.	TAP	Tapiridae	TX	<i>Taxidea</i> sp.
STco	<i>Stockoceros conklingi</i>	TAY	Tayassuidae	TXta	<i>Taxidea taxus</i>
STon	<i>Stockoceros onusrosagris</i>	TAal	<i>Tamias alpinus</i>	TY	<i>Tayassu</i> sp.
SU	<i>Scapanus</i> sp.	TAar	<i>Tamias aristas</i>	TYpc	<i>Tayassu pecari</i>
SUI	Suidae	TAas	<i>Tamias amoenus</i>	TYta	<i>Tayassu tajacu</i>
SULs	<i>Scapanus latimanus</i>	TAci	<i>Tamias cinereicollis</i>	UR	<i>Ursus</i> sp.
SUos	<i>Scapanus orarius</i>	TAcp	<i>Tamias canipes</i>	URS	Ursidae
SUti	<i>Scapanus townsendii</i>	TAdo	<i>Tamias dorsalis</i>	URam	<i>Ursus americanus</i>
SX	<i>Sorex</i> sp.	TAmc	<i>Tamias merriami</i>	URar	<i>Ursus arctos</i>
SXas	<i>Sorex arcticus</i>	TAmn	<i>Tamias minimus</i>	URms	<i>Ursus maritimus</i>
SXaz	<i>Sorex arizonae</i>	TApa	<i>Tamias panamintinus</i>	UY	<i>Urocyon</i> sp.
SXbi	<i>Sorex bendirii</i>	TApr	<i>Tamias palmeri</i>	UYci	<i>Urocyon cinereoargenteus</i>
SXcs	<i>Sorex cinereus</i>	TAqm	<i>Tamias quadrimaculatus</i>	UYli	<i>Urocyon littoralis</i>
SXdr	<i>Sorex dispar</i>	TAqv	<i>Tamias quadrivittatus</i>	VES	Vespertilionidae
SXfo	<i>Sorex fontinalis</i>	TAru	<i>Tamias ruficaudus</i>	VU	<i>Vulpes</i> sp.
SXfs	<i>Sorex fumeus</i>	TAso	<i>Tamias sonomae</i>	VUma	<i>Vulpes macrotis</i>
SXga	<i>Sorex gaspensis</i>	TAsp	<i>Tamias speciosus</i>	VUve	<i>Vulpes velox</i>
SXha	<i>Sorex haydeni</i>	TAst	<i>Tamias striatus</i>	VUvu	<i>Vulpes vulpes</i>
SXhi	<i>Sorex hoyi</i>	TAti	<i>Tamias townsendi</i>	YUC	<i>Yucca</i>
SXhy	<i>Sorex hydrodromus</i>	TAum	<i>Tamias umbrinus</i>	ZAP	Zapodidae
SXjx	<i>Sorex jacksoni</i>	TCma	<i>Trichechus manatus</i>	ZAcS	<i>Zalophus californicus</i>
SXka	<i>Sorex kansasensis</i>	TD	<i>Tadarida</i> sp.	ZEa	<i>Zea mays</i>
SXli	<i>Sorex lyelli</i>	TDbr	<i>Tadarida brasiliensis</i>	ZP	<i>Zapus</i> sp.
SXls	<i>Sorex longirostris</i>	TDco	<i>Tadarida constantinei</i>	ZPhu	<i>Zapus hudsonius</i>
SXmi	<i>Sorex merriami</i>	TH	<i>Thomomys</i> sp.	ZPpr	<i>Zapus princeps</i>
SXms	<i>Sorex monticolus</i>	THbo	<i>Thomomys bottae</i>	ZPtr	<i>Zapus trinotatus</i>

*Odocoileus* bones, 3 of which exhibit tooth punctures, then ODva is listed as having modification of "TP").

**Table 6.** Composition of Modification (L\_TMODI) lookup table.

IM	Impact marks
SF	Spiral fractures
TF	Transverse fracture
LF	Longitudinal fracture
PO	Polish
BN	Burning
RG	Rodent gnawing
CG	Carnivore gnawing
W0	Weathering stage 0
W1	Weathering stage 1
W2	Weathering stage 2
W3	Weathering stage 3
W4	Weathering stage 4
W5	Weathering stage 5
FL	Flaked
ST	Striations
SM	Slice marks
SS	Scrape striations
SA	Shallow abrasions
HB	Human butchering
TP	Tooth punctures
DE	Decorated
BC	Bone color
PA	Pathologies
AE	Artifact embedded
BT	Bone tool
TM	Trampling

### Faunal Comment Table

*Machine Number* (N\*): Arbitrary sequential number assigned to each locality by FAUNMAP staff.

*Analysis Unit* (A30\*): Name of the smallest subdivision containing fauna.

*Taxon ID* (A6\*, L\_TAXA): Two-letter genus, two-letter species, two-letter subspecies, or three- or four-letter codes for families and orders, etc.

*Line Number* (S\*): Number of line for the comment.

*Comment* (A60): Comment about the fauna.

**Discussion of Faunal Comment Table.** The Line Number field is used if a lengthy comment is necessary. Each comment field holds 60 characters, so multiple lines are needed for comments that exceed this number of characters. This table contains comments about a specific taxon only, and it has not been used for the locality in general.

### Deposit Table

*Machine Number* (N\*): Arbitrary sequential number assigned to each locality by FAUNMAP staff.

*Analysis Unit* (A30\*): Name of the smallest subdivision containing fauna.

*Recovery Method* (A4, L\_RECOV): Method by which the fauna was recovered from the locality (Table 7).

*Depositional System* (A2, L\_DEPSYS): Highest category of classification of sedimentary accumulations.

*Depositional Environment* (A2, L\_DEPEN): Subdivision of Depositional Systems.

*Facies* (A2, L\_FACIES): Subdivision of Depositional Environment.

*Mixing*: (A1) Evidence for mixing of fauna in Analysis Unit (Y = Mixing Present, P = Mixing Possible, N = Mixing Not Present).

**Table 7.** Composition of Recovery Method (L\_RECOV) lookup table.

NOSC	Excavated material was not screened.
CRSE	All excavated material was coarse screened (>1/16-inch mesh).
FINE	All excavated material was fine-screened (<1/16-inch mesh).
FISM	Only a sample of the excavated material was fine-screened.
CRFI	All excavated material was coarse-screened, and a representative sample was fine-screened.
MESE	All excavated material was medium screened (1/8-inch mesh).
FLOT	Excavated material was recovered from flotation sample.
TOTL	Total recovery techniques were employed.
DONA	Material was donated, and excavation technique is unknown.
SASC	Sample of material excavated was screened, mesh size/type unknown.

**Discussion of Deposit Table.** Depositional System, Depositional Environment, and Facies are three levels of classification of sedimentary accumulations for the FAUNMAP database (Tables 8, 9, and 10). They are not directly equivalent to the same terms in the sedimentological literature (Selley 1982). In the FAUNMAP classification, broader categories (e.g., fluvial, lacustrine, etc.) represent Depositional Systems. These categories have been subdivided. For example, fluvial systems have been divided into fine-grained meander belt, coarse-grained meander belt, and braided stream, which are categorized as Depositional Environments.

They have been subdivided into Facies (e.g., channel lag, point bar, levee, etc.). Facies are not necessarily restricted to particular Depositional Environments. For example, a channel lag facies can occur in either fine-grained or coarse-grained meander belt systems. Figure 4 illustrates the relationships between these three categories.

**Table 8.** Composition of Depositional System (L\_DEPSYS) lookup table.

LA	Lacustrine
FL	Fluvial
GR	Gravity
AE	Aeolian
CV	Cave
SP	Spring
VC	Volcanic
MA	Marine
BI	Biological
AN	Anthropogenic

**Table 9.** Composition of Depositional Environment (L\_DEPENV) lookup table.

AF	Ash fall
AR	Arroyo
AS	Asphalt
BG	Bog
BI	Biological
BS	Braided stream
CD	Conduit
CF	Colluvial fan
CL	Colluvium
CM	Coarse-grained meander belt
CU	Cultural
DB	Deep sea benthic
DF	Debris fall
DL	Deflation lag
DN	Dune
ES	Estuarine
FB	Floodplain basin
FL	Flow
FM	Fine-grained meander belt
FS	Fissure
HZ	Horizontal
KT	Kettle
LB	Littoral benthic
LF	Lava flow
LK	Lake
LS	Loess
LT	Lava tube
NA	Nuee ardente
OW	Outwash
OX	Oxbow lake
PD	Pond
PL	Playa
PT	Pit

**Table 9.** (continued)

RS	Rockshelter
SH	Sinkhole
SL	Slump
SS	Sand sheet
TK	Thermokarst Lake
WD	Wadi
WP	Wave-cut platform

**Table 10.** Composition of Facies (L\_FACIES) lookup table.

AE	Aeolian
AL	Alluvium
AN	Asphaltic sand
AS	Asphaltic seep
BC	Beach
BD	Breakdown
BR	Bar
BS	Bedrock disintegration
BW	Burrow
CG	Coarse-grained
CH	Channel
CL	Channel lag
CP	Chemical precipitates
CS	Crevasse splay
DC	Deltaic coarse
DG	Dung
DI	Diatomite
DW	Deep water muds
FG	Fine-grained
FL	Fluvial
FP	Floodplain
HB	Burial
LC	Lacustrine
LV	Levee
MD	Mound
ML	Marl
MN	Midden
OD	Occupation debris
PA	Paleosol
PB	Point bar
PD	Pond
PT	Peat
SW	Shallow water muds
TC	Talus cone
TE	Terrace
TR	Travertine
TU	Tufa
UC	Unsorted
VR	Varved

Depositional System	Depositional Environment	Facies
Lacustrine (LC)	Lake (LK) Oxbow lake (OX) Pond (PD) Playa (PL) Floodplain basin (FB) Bog (BG) Thermokarst lake (TK) Kettle (KT) Deltaic coarse (DC)	Deep water muds (DW) Shallow water mud (SW) Beach (BC) Chemical precipitates (CP) Marl (ML) Peat (PT) Diatomite (DI) Varved (VR) Fine-grained meander belt (FM)
Fluvial (FL)	Coarse-grained meander belt (CM) Braided stream (BS) Arroyo (AR) Outwash (OW) Wadi (WD) Channel (CH)	Channel lag (CL) Bar (BR) Crevasse splay (CS) Floodplain (FP) Levee (LV) Point bar (PB) Terrace (TE)
Gravity (GR)	Colluvium (CL) Slump (SL) Flow (FL) Colluvial fan (CF)	Coarse grain (CG) Fine grain (FG) Unsorted (UC)
Aeolian (AE)	Dune (DN) Sand sheet (SS) Loess (LS) Deflation lag (DL)	
Cave (CV)	Pit (PT) Sinkhole (SH) Fissure (FS) Horizontal (HZ) Rockshelter (RS) Lava tube (LT)	Bedrock disintegration (BS) Breakdown (BD) Talus cone (TC) Travertine (TR) Lacustrine (LC) Fluvial (FL) Aeolian (AE)
Spring (SP)	Conduit (CD) Asphalt (AS)	Tufa (TU) Asphalt seep (AS) Asphalt sand (AN)
Volcanic (VC)	Ash fall (AF) Lava flow (LF) Nuee ardente (NA) Debris fall (DF)	
Marine (MA)	Wave-cut platform (WP) Littoral benthic (LB) Deep sea benthic (DB) Estuarine (ES)	
Biological (BI)		Midden (MN) Dung (DG)
Anthropogenic (AN)		Mound (MD) Burial (HB) Occupational debris (OD)
		Paleosol (PA)

**Figure 4.** Classification system for sedimentary accumulations in FAUNMAP database. Depositional System, Depositional Environment, and Facies are different levels. Facies are not restricted to a particular depositional environment (see text for explanation). Letters in parentheses represent FAUNMAP codes.

**Cultural Table**

*Machine Number (N\*)*: Arbitrary sequential number assigned to each locality by FAUNMAP staff.

*Analysis Unit (A30\*)*: Name of the smallest subdivision containing fauna.

*Cultural Id (S\*)*: Arbitrary number given to each cultural age defined for the Analysis Unit.

*Cultural Age (A25)*: Cultural age(s) for the Analysis Unit.

**Discussion of Cultural Table.** The Cultural Id allows more than one cultural age to be listed for an Analysis Unit. The Cultural Age was always entered as described in the site reference and was never inferred from artifact descriptions or figures in the reference.

**Relative Age Table**

*Machine Number (N\*)*: Arbitrary sequential number assigned to each locality by FAUNMAP staff.

*Analysis Unit (A30\*)*: Name of the smallest subdivision containing fauna.

*Period (A4, L\_PERIOD)*: Geologic Period of the Analysis Unit. All Periods are included in lookup table (Table 11).

*Epoch (A4, L\_EPOCH)*: Geologic Epoch of the Analysis Unit (Table 12).

*Age (A4, L\_AGE)*: Geologic Age of the Analysis Unit (Table 13).

*Land Mammal Age (A4)*: Land Mammal Age of the Analysis Unit (RANC = Rancholabrean, IRVI = Irvingtonian, and BLAN = Blancan).

*Oxygen Isotope (A3)*: The marine oxygen isotope stage, using a number for the stage and a letter for substage. Stages are 1, 2, 3, 4, and 5 with substages 5a through 5e.

*Magnetochron (A4)*: Magnetic chronology of the Analysis Unit (BRUN = Brunhes, GAUS = Gauss, MATU = Matuyama, OLDU = Olduvai, GILB = Gilbert).

*Minimum Age (N)*: Minimum age of the Analysis Unit in years B.P.

*Minimum Age Method (A4, L\_METHDT)*: Method used to determine the minimum age of the Analysis Unit.

*Maximum Age (N)*: Maximum age of the Analysis Unit in years B.P.

*Maximum Age Method (A4, L\_METHDT)*: Method used to determine the maximum age of the Analysis Unit. Codes for the method are listed in the L\_METHDT lookup table.

**Table 11.** Composition of Period (L\_PERIOD) lookup table.

QUAT	Quaternary
TERT	Tertiary
CRET	Cretaceous
JURA	Jurassic
TRIA	Triassic
PERM	Permian
PENN	Pennsylvanian
MISS	Mississippian
DEVO	Devonian
SILU	Silurian
ORDO	Ordovician
CAMB	Cambrian
PREC	Precambrian

**Table 12.** Composition of Epoch (L\_EPOCH) lookup table.

HOLO	Holocene
HOPL	Early Holocene/Late Pleistocene
PLEI	Pleistocene
LPLE	Late Pleistocene
MPLE	Middle Pleistocene
EPLI	Early Pleistocene
PLPL	Plio-Pleistocene

**Table 13.** Composition of Age (L\_AGE) lookup table.

HOLO	Holocene
LHOL	Late Holocene
MHOL	Middle Holocene
EHOL	Early Holocene
WIHO	Wisconsin/Holocene
WISC	Wisconsin
LWSC	Late Wisconsin (<35 ka)
MWSC	Middle Wisconsin (35–65 ka)
EWSC	Early Wisconsin (65–122 ka)
SANG	Sangamon (122–132 ka)
ILLI	Illinoian (132–302 ka)
PILL	Post-Illinoian
PRIL	Pre-Illinoian (>302 ka)
YARM	Yarmouthian
KANS	Kansan
PRKS	Pre-Kansan
AFTO	Aftonian
NEBR	Nebraskan
PRNB	Pre-Nebraskan

Period	Epoch	Age	LM Age	Oxygen Isotope
Quaternary (0–1600 ka)	Holocene (0–10 ka)	Late Holocene (0–4 ka)	None	1 (0–13 ka)
		Middle Holocene (4–8 ka)		
		Early Holocene (8–10 ka)		
	Late Pleistocene (10–300 ka)	Late Wisconsin (10–35 ka)	Rancho- labrean (10–450 ka)	2 (13–35 ka)
		Middle Wisconsin (35–65 ka)		3 (35–65 ka)
		Early Wisconsin (65–120 ka)		4 (65–120 ka)
		Sangamon (120–132 ka)		5a (120)
				5b
				5c
				5d
				5e (132)

**Figure 5.** Numerical age ranges for the relative age categories of Period, Epoch, Age, Land Mammal Age, and Oxygen Isotope Stage. Numerical dates for Period, Epoch, Ages, and Oxygen Isotope Stages were modified after Bowen *et al.* 1986. ka = 1000 years.

**Discussion of Relative Age Table.** Minimum and maximum ages of an Analysis Unit (see below for methods of determination) were used to assign the Analysis Unit to Period, Epoch, Age, Land Mammal Age, and Oxygen Isotope Stage. Figure 5 shows the age ranges for the various relative age categories as used in FAUNMAP.

Determination of the minimum and maximum age of an Analysis Unit was one of the most critical parts in developing the FAUNMAP database because it established the foundations for all temporal analyses. Many times the minimum and maximum ages of an Analysis Unit were given in the reference. However, sometimes the person coding the site had to make

decisions about the ages of Analysis Units based upon radiocarbon dates, stratigraphic descriptions, cultural associations, and biostratigraphy. On a few occasions the Regional Collaborator was consulted about the age of an Analysis Unit.

Radiocarbon dates were the preferred method for determining the minimum and maximum ages of Analysis Units (Table 14). Only radiocarbon dates accepted by the author were used. Dates that were considered questionable by the author were not used in this process, but they were recorded in the Archival Database. If a date was recorded as A.D., then it was subtracted from 1950 to give a date in years B.P. If the date was reported as B.C., then 1950 was added to it.

Radiocarbon dates did not always occur at the top and/or bottom of the Analysis Unit. Therefore, at times, some overlap was used to bracket the Analysis Unit.

**Table 14.** Composition of Minimum and Maximum Age Methods (L\_METHDT) lookup table.

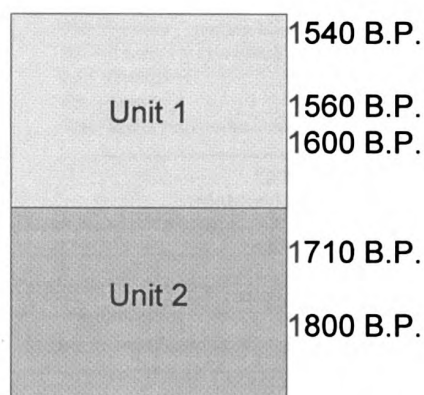
14CA	Radiocarbon-accelerator
14CG	Radiocarbon-gas/benzene
14CS	Radiocarbon-solid carbon
14CU	Radiocarbon-unknown
230T	230T
40KA	40K/40AR
AMAG	Archeomagnetic
AMIN	Amino acid racemization
BIOS	Biostratigraphic
CORR	Corrected date
CULT	Cultural association
DEND	Dendrochronology
ELSR	Electronic spin resonance
FIST	Fission track
OBHY	Obsidian hydration
PMAG	Paleomagnetic
STRA	Stratigraphic correlation
TEPH	Tephrochronology
THER	Thermoluminescence
U234	234U
URTH	Uranium-Thorium

Figure 6 shows the vertical distribution of radiocarbon dates in two hypothetical strata. Each stratum is considered an Analysis Unit. The minimum age of Unit 1 is 1540 years B.P., as indicated by the radiocarbon date at the top of the unit. The actual maximum age of Unit 1 is unknown because the base of this stratum lacks radiocarbon dates. However, based upon stratigraphic relationships, the maximum age cannot be older than 1710 years B.P., as indicated by the radiocarbon date near the middle of Unit 2. Therefore, the maximum age of Unit 1 is 1710 years B.P. Likewise, for Unit 2 the minimum age is 1600 years B.P. and the maximum is 1800 years B.P. Stratigraphic correlation was also employed to establish Analysis Unit age, if the Analysis Unit was in a stratum whose age had been determined at other localities or if the Analysis Unit was between two other strata that had been dated.

Cultural Association was used to determine the age of an Analysis Unit when no other means of determination were available. For example, if an Analysis Unit contained diagnostic artifacts of a single cultural group (e.g., Late Woodland) and there was no evidence for redeposition or intrusion, then the Analysis Unit was assumed to be bracketed by the ages for that cultural group. For Late Woodland, the age range would be 1150–1250 years B.P. Great care was taken in coding

minimum and maximum ages of Analysis Units and age assignments are generally conservative. If an Analysis Unit primarily contained Late Woodland artifacts, but it also had a few Middle Woodland artifacts that were not intrusive, then the minimum and maximum ages of the Analysis Unit would span the age range for both Late and Middle Woodland. Age criteria for different cultural groups were taken from Graham and Semken (1987), Purdue and Styles (1987), and Frison (1978).

Biostratigraphy was used to determine the age of an Analysis Unit when fauna was the only means available. For instance, if no other information was given about a site and *Mammot americanum* (American mastodont) was the only taxon present, then the age of the site was considered to be Pleistocene (> 10,000 years B.P.). Again, Regional Collaborators were frequently consulted when this method was used. This method generally did not provide fine-scale temporal resolution. However, in some cases it was useful. For instance, if undated bog deposits containing American mastodont bones occurred on top of a till unit that had a minimum age of 14,500 years B.P., then the maximum and minimum ages of this Analysis Unit would be 14,500 and 10,000 years B.P., respectively.



**Figure 6.** Vertical distribution of radiocarbon dates in two hypothetical strata.

#### Absolute (Numerical) Age Table

*Machine Number (N\*)*: Arbitrary sequential number assigned to each locality by FAUNMAP staff.

*Analysis Unit (A30\*)*: Name of the smallest subdivision containing fauna.

*Age ID (S\*)*: Arbitrary number assigned to each date in an Analysis Unit so that more than one date can be entered.

**Associated Date (N):** Numerical date(s) for the Analysis Unit.

**Standard Deviation (N):** Standard deviation for the associated date.

**Dating Method (A4, L\_ABMETH):** Four-character code used to describe the method used to obtain the associated date (Table 15).

**Material Type (A4, L\_MATTER):** Type of material dated (Table 16).

**Lab (A10):** Acronym for the laboratory that processed the date and the laboratory number.

**Date Position (A2, L\_POSTDT):** The vertical position of the associated date in the Analysis Unit (Table 17).

**Confidence of Date (A2, L\_CONFI):** Confidence of the date as recorded in the site references (Table 18).

**Taxon (A6, L\_TAXA):** Taxon identification (plant or animal) of the material dated. See L\_TAXA lookup table (Table 5).

**Table 15.** Composition of Dating Method (L\_ABMETH) lookup table.

14CA	Radiocarbon-accelerator
14CG	Radiocarbon-gas/benzene
14CS	Radiocarbon-solid carbon
14CU	Radiocarbon-unknown
230T	230T
40KA	40K/40AR
AMIN	Amino acid racemization
CORR	Corrected date
DEND	Dendrochronology
ELSR	Electronic spin resonance
FIST	Fission track
OBHY	Obsidian hydration
PMAG	Paleomagnetic
THER	Thermoluminescence
U234	234U

#### Discussion of Absolute (Numerical) Age Table.

The Age ID Number is an arbitrary number assigned to each associated date so that more than one date could be entered into PARADOX for each Analysis Unit. If there were three dates for a particular unit, then they were numbered 1, 2, 3 in this field. The numerical date was recorded in the Associated Date field (see Table 19, Example 1). This date was entered as years B.P. If the date listed in the site reference was A.D., then it was subtracted from 1950 to obtain years B.P. If the date was listed as B.C., then 1950 was added to the date. The standard deviation was then entered in the appropriate field. If the date had different positive and negative standard deviations, then the date was listed twice with the two standard deviations entered separately (see

**Table 16.** Composition of Material Type (L\_MATTER) lookup table.

BAPP	Bone apatite/carbonate
BCOL	Bone collagen
BOCH	Charred bone
BOMN	Bone-amino acid
BONE	Bone
CARB	Carbonate
CHAR	Charcoal
CORD	Corrected dendrochronology
CORI	Corrected isotopically
CORR	Corrected date
DUNG	Dung
ENAM	Enamel-tooth
FART	Fibrous artifact
FEAT	Feature or structure
GYTJ	Gyttja
HFEA	Historic feature
HOSH	Horn sheath
HUMT	Humate
OBSI	Obsidian
ORGM	Organic mud
PALS	Paleosol
PEAT	Peat
PLCH	Charred plant
PLNT	Plant material
POTT	Pottery
SART	Stone artifact
SHCA	Shell-carbonate
SHEL	Shell
SHOR	Shell-organics
VASH	Volcanic ash
WOOD	Wood

**Table 17.** Composition of Date Position (L\_POSTDT) lookup table.

UC	Upper contact of Analysis Unit
UP	Upper portion of Analysis Unit
MP	Middle portion of Analysis Unit
LP	Lower portion of Analysis Unit
LC	Lower contact of Analysis Unit

**Table 18.** Composition of Confidence of Date (L\_CONFI) lookup table.

OC	Date too old, contamination probable.
YC	Date too young, contamination probable.
YM	Date too young, context disturbed.
OM	Date too old, context disturbed.
RJ	Date rejected by author.
QD	Date questioned but not rejected by author.
IN	Infinite.

Table 19, Example 2).

The method of dating was entered from L\_ABMETH (Table 15), and the material dated was taken from L\_MATTER (Table 16). These two fields were recorded exactly as they were reported in the site reference. The laboratory acronym and laboratory number, separated by a hyphen, were also recorded. The position of the date was determined by reading the text and examining the figures of the site report. The confidence of the date was recorded as the opinion expressed by the site authors. If organic material was dated, then the identified taxon was taken from the L\_TAXA Table (Table 5).

**Table 19.** Examples illustrating methods of recording numerical dates (see text for explanation).**Example 1:**

Machine Number: 4000	Machine Number: 4000
Analysis Unit: Level 5	Analysis Unit: Level 5
Age ID Number: 1	Age ID Number: 2
Associated Date: 2450	Associated Date: 2760
Standard Deviation: 50	Standard Deviation: 120
Dating Method: 14CG	Dating Method: 14CG
Material Type: CHAR	Material Type: BONE
Lab: TX-9878	Lab: TX-7657

**Example 2:**

Machine Number: 4001	Machine Number: 4001
Analysis Unit: Clay	Analysis Unit: Clay
Age ID Number: 1	Age ID Number: 2
Associated Date: 8990	Associated Date: 8990
Standard Deviation: 100	Standard Deviation: -130

**Agent of Accumulation Table**

**Machine Number (N\*):** Arbitrary sequential number assigned to each locality by FAUNMAP staff.

**Analysis Unit (A30\*):** Name of the smallest subdivision containing fauna.

**ID Number (S\*):** Arbitrary number given to each agent of accumulation entry so that more than one can be entered for an Analysis Unit.

**Agent: (A2, L\_AGENT):** Agent(s) responsible for the bone accumulation in the Analysis Unit.

**Discussion of Agent of Accumulation Table.** An arbitrary ID Number was given to each agent of accumulation entry in the Analysis Unit. This procedure allowed for multiple agent entries. The Agent field was entered using the two-letter codes in L\_AGENT (Table 20). Many times the agent was unknown or not explicitly stated in the publications, and therefore, agents were frequently inferred from descriptions in the publication. This category is probably one of the most subjective categories in FAUNMAP. As taphonomic studies become more common, data in this table will be more objective.

**Table 20.** Composition of Agent (L\_AGENT) lookup table.

CD	Carnivore den
CS	Carnivore kill/scavenging site
DN	Den/hibernaculum
DP	Depositional processes
HB	Human burial
HH	Human habitation
HS	Human kill/scavenging site
NA	Natural attrition
NC	Natural catastrophe
PR	Packrat
RR	Raptor roost
RW	Reworked
TR	Trap
WH	Water hole

**Bone Modification Table**

**Machine Number (N\*):** Arbitrary sequential number assigned to each locality by FAUNMAP staff.

**Analysis Unit (A30\*):** Name of the smallest subdivision containing fauna.

**Modification Number (S\*):** Arbitrary number assigned to each type of bone modification found in the Analysis Unit.

**Bone Modification (A2, L\_BMODI):** Types of bone modification present in the Analysis Unit.

**Discussion of Bone Modification Table.** An arbitrary modification number was given to each agent of accumulation entry in the Analysis Unit. This allowed for multiple modification entries. The modifications were recorded with two letter codes in L\_BMODI (Table 21). This field is specific to modification in the Analysis Unit and is not taxon specific or related to individual specimens. Therefore, it is different from the bone modification field in the

Faunal Table. Also, this field does not record the frequency of modification types. Consequently, if only one bone in an assemblage exhibited a specific type of modification, it was recorded for the entire Analysis Unit. Weathering stages are those defined by Behrensmeier (1978).

**Table 21.** Composition of Bone Modification (L\_BMODI) lookup table.

AB	Abraded
AE	Artifact embedded
BC	Bone color
BN	Burned
BT	Bone tool
CG	Carnivore gnawed
DE	Decorated
ET	Etched
FL	Flaked
HB	Human butchering
IM	Impact marks
LF	Longitudinal fracture
MN	Mineralized
PH	Pathology
PO	Polish
PT	Pitted
RE	Root etched
RG	Rodent gnawed
SA	Shallow abrasions
SF	Spiral fracture
SM	Slice marks
SS	Scrape striations
ST	Striations
TF	Transverse fracture
TM	Trampling
TP	Tooth punctures
W0	Weathered
W1	Weathering stage 1
W2	Weathering stage 2
W3	Weathering stage 3
W4	Weathering stage 4
W5	Weathering stage 5

#### CREATION OF FAUNMAP RESEARCH DATABASE

As previously indicated, the Archival Database for FAUNMAP contains data derived directly from the scientific literature with a minimal amount of change. Before these data could be used for any type of analyses, it was essential to create a Research Database which would standardize taxonomy, establish a chronological framework, eliminate intrusive taxa, and remove temporally mixed faunal assemblages. In developing the Research Database, the Archival Database was passed through a filter of decision-making processes that can introduce various subjective biases. It should be emphasized that all of the original data is preserved in the Archival Database, which can be used

to create other Research Databases. To eliminate individual biases, one of the FAUNMAP workshops was devoted to discussion of how the Research Database should be created. A series of guidelines developed at this workshop were then used to create the Research Database, which is on the diskette at the back of this publication and which was used to produce the maps in Illinois State Museum, *Scientific Papers*, Volume XXV, No. 2. In order to fully understand the strengths and weaknesses of the Research Database, it is necessary to outline the steps used to create it.

#### Step 1: Resage Table

*Machine Number* (N\*): Arbitrary sequential number assigned to faunal site by FAUNMAP staff from the locality table.

*Analysis Unit* (A30\*): Name of smallest unit containing fauna.

*Site Name* (A50): Most commonly used name for the locality.

*State/Province* (A2, STPROV): State or province in which the locality is found.

*Epoch* (A4, L\_EPOCH): Geologic Epoch of the Analysis Unit.

*Age*: (A4, L\_AGE): Geologic Age of the Analysis Unit.

*Minimum Age* (N): Minimum age of the Analysis Unit in years B.P.

*Maximum Age* (N): Maximum age of the Analysis Unit in years B.P.

*Resage* (A4): Research age of the Analysis Unit assigned by FAUNMAP staff.

*RIO* (A3): Research In or Out field, to "flag" Analysis Units incorporated into, or eliminated from, the Research Database.

*Site Type* (A5): Field to "flag" cultural (CULT) and paleontological sites (PALEO).

**Discussion of Resage Table.** To create the Resage Table, the Locality and Age tables of the Archival Database were queried to extract data from the first eight fields (Machine Number, Analysis Unit, Site Name, State/Province, Epoch, Age, Minimum Age, Maximum Age). Three fields, Resage, RIO, and Site Type, were added to the Resage Table. The Resage field standardized the temporal framework for the Research Database by placing all Analysis Units in specific temporal categories. Again, all original dates for the Analysis Units are preserved in the Archival Database.

Evaluation of, and decisions about, assignment of an Analysis Unit to a temporal category in Resage were not always straightforward. If an Analysis Unit was

## FAUNMAP Time Scale

Age Category	Archival Database Years B.P.	Research Database Years B.P.
Post-Columbian	Not Defined	0–550
Late Holocene	0–4000	450–4500
Post-Columbian/Late Holocene	Not Defined	0–4500
Middle Holocene	4000–8000	3500–8500
Late Holocene/Middle Holocene	Not Defined	0–8500
Early Holocene	8000–10,000	7500–10,500
Middle Holocene/Early Holocene	Not Defined	3500–10,500
Late Glacial	Not Defined	9500–15,500
Early Holocene/Late Glacial	Not Defined	7500–15,500
Full Glacial	Not Defined	14500–20,500
Glacial	Not Defined	9500–20,500
Holocene	0–10,000	0–10,000
Holocene/Pleistocene	0–110,000	0–110,000
Late Wisconsin	10,000–40,000	20,000–40,000
Wisconsin	10,000–110,000	10,000–110,000

**Figure 7.** Time categories used in the creation of the Research Database. Age Category was assigned to the Resage field based upon the temporal overlap with the time ranges in the Research Database category. See text for further explanation.

predominantly incorporated in one Resage category but overlapped slightly with another, it was necessary to decide whether it should be assigned to the predominant time category or whether it should be lumped with both categories. For example, if an Analysis Unit had minimum and maximum ages of 2100 years B.P. and 4300 years B.P., respectively, it was predominantly in the Late Holocene but overlapped slightly with the Middle Holocene. To resolve these issues, it was decided that if the overlap was less than 500 years, then the Analysis Unit would be assigned to the predominant category (e.g., Late Holocene, in this case). If the overlap was greater than 500 years, then the Analysis Unit was referred to a combined time category (e.g., Late/Middle Holocene). For the boundary between the Post-Columbian and Late Holocene, an overlap of 50 years was used (Figure 7).

The RIO field “flagged” Analysis Units in the database that contain intrusive taxa, mixing of faunal assemblages, and other types of inconsistencies that would affect analyses. By using this field as a marker

or “flag,” Analysis Units were removed from the analysis without actually removing them from the database. The Deposit Table was queried to find any Analysis Units that were coded as “mixed.” These were then marked as “OUT” in the RIO field. The decision about mixing was not based upon any evaluation or decision by the person coding the data because information in the Deposit Table was taken directly from the site references. Sites excluded from the Research Database were then reviewed by the Principal Investigators and Regional Collaborators, and after some discussion a few modifications were made and documented in the Archival Database. As a result, some Analysis Units were reinstated in the Research Database. These have been noted in the Comment field.

The Site Type field marked cultural (archeological) and noncultural (paleontological) sites. The Cultural ID field was queried to find Analysis Units with cultural affiliations, and the Agent of Accumulation field was queried for human agents. Analysis Units extracted from the database by these queries were then marked

CULT in the Site Type field; the others were then assumed to be paleontological and encoded PALEO.

### Step 2: Resfaun Table

The second step in developing the Research Database was the creation of the Resfaun Table. This table is the same as the Faunal table except that the field RIO was added.

**Machine Number (N\*):** Arbitrary sequential number assigned to faunal site by FAUNMAP staff from the locality table.

**Analysis Unit (A30\*):** Name of the smallest unit containing fauna.

**Taxon Id (A6\*, L\_TAXA):** Two-letter genus, two-letter species, two-letter subspecies, or three- or four-letter codes for families and orders, etc.

**Id Confidence (A2):** Confidence in the identification of the taxon (Q = confidence questioned, CF = cf., and AF = affinity).

**MNI (S):** Minimum number of individuals counted, taxon specific.

**NISP (N):** Number of identified specimens counted, taxon specific.

**Context (A1):** Context of taxon in Analysis Unit (I = Intrusive, R = Redeposited, and A = Articulated).

**Modification (A2, L\_BMOD1):** Bone modification type, taxon specific.

**RIO (A3):** Research In or Out field, to "flag" Analysis Units incorporated into, or eliminated from, the Research Database.

**Discussion of Resfaun Table.** The Resfaun Table was created by copying the Faunal Table from the Archival Database. All information in the first eight fields in the Resfaun Table are the same as in the Archival Database. The RIO field was then used to mark certain taxa "OUT" if they were excluded from the Research Database. First, all fauna in Analysis Units marked "OUT" in the Resage Table (see above) were also marked "OUT" in the Resfaun Table. Next, all orders, families, and all records of *Homo sapiens* and *Canis familiaris* were also marked "OUT." In addition, records for individual taxa that contained an "I" or "R" (Intrusive or Redeposited) in the Context field, as coded from the site reference, were marked as "OUT."

### Step 3:

The next step was to query the Resage table for all

Analysis Units "not HIST" (post-Columbian) which then grouped all pre-Columbian (>500 years B.P.) Analysis Units. They were searched for the following non-native taxa: *Bos taurus*, *Capra hircus*, *Equus caballus*, *Felis catus*, *Lepus europaeus*, *Ovis aries*, *Rattus*, *Sus*, and *Mus*. Pre-Columbian Analysis Units containing these non-native taxa were assumed to be mixed, and the entire Analysis Unit was removed from both the Resage and Resfaun tables.

### Step 4: Restaxa Table

Finally, to standardize taxonomy a Restaxa Table was created.

**Taxon Id (A6\*):** Code from L\_TAXA lookup table for genus and species of taxa as coded in the Archival Database.

**Research Id (A6):** Code from L\_TAXA lookup table for the genus and species. Differs from Taxon Id above when a taxon has been systematically revised using references cited below.

**Revised Name (A50):** Taxonomically revised name of taxon as taken from the references cited below.

**Common Name (A40):** Common name used for taxon.

**Higher Taxon Id (A6):** Code from L\_TAXA lookup table that defines the taxon's next higher level, i.e., family.

**Order (A6):** Code from L\_TAXA lookup table that in most cases is the taxon's order.

**RIO (A3):** Research In or Out field.

**Discussion of Restaxa Table.** *Mammal Species of the World* (Wilson and Reeder 1993) provided the basis for standardizing the names for most extant mammals. However, in some cases (e.g., felids), Honacki *et al.* (1982) was preferred over Wilson and Reeder (1993). Kurtén and Anderson's (1980) taxonomy was generally used for extinct taxa, but in some cases, more current information (e.g., McDonald and Ray 1989) or other preferences (Graham 1986) were used. Synonymies were recorded in the Research Id and Revised Name fields. Again, it should be emphasized that the original lookup tables (L\_TAXA) were not changed in the Archival Database. The original codes in the Taxon Id field of the Restaxa Table were also retained. The revised table was edited by Elaine Anderson and Russell Graham. The taxonomy used in the Research Database is given in Illinois State Museum, *Scientific Papers*, Volume XXV, No. 2.

Table 22 summarizes the taxonomic changes made in the Archival Database to create the Research Database. All taxa **not** listed in Table 22 are the same in the

Archival and Research databases. Again, the taxonomy in the Research Database reflects specific objectives for the research questions concerning mammalian community evolution (see METHODS section). To this end, if a genus is monospecific (e.g., *Antilocapra americana*), then all references to that genus (e.g., *Antilocapra* sp.) were assigned to a single species (e.g., *A. americana*). On the other hand, for some taxa, fossil specimens can be assigned to a species complex (e.g., *Blarina* spp.) without much problem, but specific assignment may require detailed measurements to differentiate the species. In many cases, these measurements were not made or reported in the literature, so all phena in the archival taxon were referred to a genus

(*Blarina* sp.) for the Research Database. Similarly, in order to make meaningful statistical comparisons of communities, it was necessary in some cases to lump individual species (e.g., *Mylohyus fossilis* and *Mylohyus nasutus*) into a species complex (e.g., *Mylohyus* sp.). Some changes reflect synonymies (e.g., *Bison occidentalis* [Bloc] = *Bison bison* [BIbi]). In some cases it was necessary to change the codes in the Archival and Research databases (e.g. BIan - *Bison antiquus* was changed to BIbi - *Bison bison*); whereas, in other situations the same code was retained in both databases even though the taxonomic assignments were altered (e.g., FSru - *Felis rufus* and FSru - *Lynx rufus*).

**Table 22.** Taxonomic changes made in the creation of the FAUNMAP Research Database. Taxa are listed in alphabetical order based upon their archival code.

ARCHIVAL CODE	ARCHIVAL NAME	RESEARCH CODE	RESEARCH NAME
AC	<i>Antilocapra</i> sp.	ACam	<i>Antilocapra americana</i>
AL	<i>Alces</i> sp.	ALal	<i>Alces alces</i>
AP	<i>Aplodontia</i> sp.	APru	<i>Aplodontia rufa</i>
AX	<i>Alopex</i> sp.	AXla	<i>Alopex lagopus</i>
Blal	<i>Bison alleni</i>	BIpr	<i>Bison priscus</i>
BIan	<i>Bison antiquus</i>	BIbi	<i>Bison bison</i>
BIanoc	<i>Bison antiquus/ occidentalis</i>	BIbi	<i>Bison bison</i>
Blch	<i>Bison chaneyi</i>	BIpr	<i>Bison priscus</i>
BIla	<i>Bison latifrons</i>	BIpr	<i>Bison priscus</i>
Bloc	<i>Bison occidentalis</i>	BIbi	<i>Bison bison</i>
BIta	<i>Bison taylori</i>	BIpr	<i>Bison priscus</i>
BLba	<i>Blarina brevicauda</i>	BLsp	<i>Blarina</i> sp.
BLcs	<i>Blarina carolinensis</i>	BLsp	<i>Blarina</i> sp.
BLhp	<i>Blarina hylophaga</i>	BLsp	<i>Blarina</i> sp.
BLki	<i>Blarina kirtlandi</i>	BLsp	<i>Blarina</i> sp.
BLtl	<i>Blarina telmalestes</i>	BLsp	<i>Blarina</i> sp.
BY	<i>Baiomys</i> sp.	BYty	<i>Baiomys taylori</i>
CE	<i>Cervalces</i> sp.	CEsc	<i>Cervalces scotti</i>

Table 22. (continued)

ARCHIVAL CODE	ARCHIVAL NAME	RESEARCH CODE	RESEARCH NAME
CN	<i>Condylura</i> sp.	CNca	<i>Condylura cristata</i>
CR	<i>Castor</i> sp.	CRca	<i>Castor canadensis</i>
CS	<i>Cryptotis</i> sp.	CSpa	<i>Cryptotis parva</i>
CV	<i>Cervus</i> sp.	CVca	<i>Cervus canadensis</i>
CVna	<i>Cervus nannodes</i>	CVca	<i>Cervus canadensis</i>
DE	<i>Didelphis</i> sp.	DEva	<i>Didelphis virginiana</i>
EN	<i>Enhydra</i> sp.	ENlu	<i>Enhydra lutris</i>
ER	<i>Erethizon</i> sp.	ERdo	<i>Erethizon dorsatum</i>
FS	<i>Felis</i> sp.	FS	<i>Felis</i> / <i>Panthera</i> / <i>Leopardus</i> / <i>Herpailurus</i>
FSat	<i>Felis atrox</i>	FSat	<i>Panthera leo atrox</i>
FSca	<i>Felis canadensis</i>	FSca	<i>Lynx canadensis</i>
FSru	<i>Felis rufus</i>	FSru	<i>Lynx rufus</i>
GU	<i>Gulo</i> sp.	GUgu	<i>Gulo gulo</i>
LA	<i>Lagurus</i> sp.	LAcu	<i>Lemmings curtatus</i>
LAcu	<i>Lagurus curtatus</i>	LAcu	<i>Lemmings curtatus</i>
LE	<i>Lemmus</i> sp.	LEsi	<i>Lemmus sibiricus</i>
LO	<i>Liomys</i> sp.	LOir	<i>Liomys irroratus</i>
LU	<i>Lutra</i> sp.	LUca	<i>Lutra canadensis</i>
MG	<i>Megalonyx</i> sp.	MGjf	<i>Megalonyx jeffersonii</i>
MK	<i>Mictomys</i> sp.	MK	<i>Synaptomys</i> sp.
ML	<i>Mylohyus</i> sp.	MLsp	<i>Mylohyus</i> sp.
MLfs	<i>Mylohyus fossilis</i>	MLsp	<i>Mylohyus</i> sp.
MLna	<i>Mylohyus nasutus</i>	MLsp	<i>Mylohyus</i> sp.
MMex	<i>Mammuthus excilis</i>	MMco	<i>Mammuthus columbi</i>
MUma	<i>Mustela macrodon</i>	MUvi	<i>Mustela vison</i>
MX	<i>Miracinonyx</i> sp.	MXtr	<i>Miracinonyx trumani</i>
MYmg	<i>Myotis magnamolaris</i>	MYmg	<i>Myotis velifer</i>

Table 22. (continued)

ARCHIVAL CODE	ARCHIVAL NAME	RESEARCH CODE	RESEARCH NAME
NA	<i>Nasua</i> sp.	NAna	<i>Nasua narica</i>
NS	<i>Neurotrichis</i> sp.	NSgi	<i>Neurotrichis gibbsi</i>
NX	<i>Notiosorex</i> sp.	NXci	<i>Notiosorex crawfordi</i>
NZ	<i>Napaeozapus</i> sp.	NZin	<i>Napaeozapus insignis</i>
OB	<i>Ovibos</i> sp.	OBmd	<i>Ovibos moschatus</i>
OH	<i>Ochrotomys</i> sp.	OHnu	<i>Ochrotomys nuttalli</i>
OR	<i>Oryzomys</i> sp.	ORpa	<i>Oryzomys palustris</i>
OT	<i>Ondatra</i> sp.	OTzi	<i>Ondatra zibethica</i>
OVcaca	<i>Ovis canadensis catclawensis</i>	OVca	<i>Ovis canadensis</i>
PA	<i>Pappogeomys</i> sp.	PAca	<i>Pappogeomys castanops</i>
PG	<i>Perognathus</i> sp.	PG	<i>Perognathus/Chaetodipus</i> sp.
PGbi	<i>Perognathus baileyi</i>	PGbi	<i>Chaetodipus baileyi</i>
PGcf	<i>Perognathus californicus</i>	PGcf	<i>Chaetodipus californicus</i>
PGfo	<i>Perognathus formosus</i>	PGfo	<i>Chaetodipus formosus</i>
PGfx	<i>Perognathus fallax</i>	PGfx	<i>Chaetodipus fallax</i>
PGhs	<i>Perognathus hispidus</i>	PGhs	<i>Chaetodipus hispidus</i>
PGim	<i>Perognathus intermedius</i>	PGim	<i>Chaetodipus intermedius</i>
PGne	<i>Perognathus nelsoni</i>	PGne	<i>Chaetodipus nelsoni</i>
PGpe	<i>Perognathus penicillatus</i>	PGpe	<i>Chaetodipus penicillatus</i>
PGsp	<i>Perognathus spinatus</i>	PGsp	<i>Chaetodipus spinatus</i>
PH	<i>Phenacomys</i> sp.	PH	<i>Phenacomys/Arborimus</i> sp.
PHal	<i>Phenacomys albipes</i>	PHal	<i>Arborimus albipes</i>
PHlo	<i>Phenacomys longicaudus</i>	PHlo	<i>Arborimus longicaudus</i>
PM	<i>Pamphaterium</i> sp.	HOse	<i>Holmesina septentrionalis</i>
PR	<i>Procyon</i> sp.	PRlr	<i>Procyon lotor</i>
PS	<i>Parascalops</i> sp.	PSbi	<i>Parascalops breweri</i>
RG	<i>Rangifer</i> sp.	RGta	<i>Rangifer tarandus</i>

Table 22. (continued)

ARCHIVAL CODE	ARCHIVAL NAME	RESEARCH CODE	RESEARCH NAME
RGar	<i>Rangifer arcticus</i>	RGta	<i>Rangifer tarandus</i>
SA	<i>Scalopus</i> sp.	SAaq	<i>Scalopus aquaticus</i>
SB	<i>Symbos</i> sp.	BObo	<i>Bootherium bombifrons</i>
SBcv	<i>Symbos cavifrons</i>	BObo	<i>Bootherium bombifrons</i>
SM	<i>Smilodon</i> sp.	SMsp	<i>Smilodon</i> sp.
SMfa	<i>Smilodon fatalis</i>	SMsp	<i>Smilodon</i> sp.
SMfl	<i>Smilodon floridanus</i>	SMsp	<i>Smilodon</i> sp.
TPca	<i>Tapirus californicus</i>	TPsp	<i>Tapirus</i> sp.
TPco	<i>Tapirus copei</i>	TPsp	<i>Tapirus</i> sp.
TPha	<i>Tapirus haysii</i>	TPsp	<i>Tapirus</i> sp.
TPme	<i>Tapirus merriami</i>	TPsp	<i>Tapirus</i> sp.
TPtn	<i>Tapirus tennesseae</i>	TPsp	<i>Tapirus</i> sp.
TPve	<i>Tapirus veroensis</i>	TPsp	<i>Tapirus</i> sp.
TT	<i>Tetrameryx</i> sp.	TTsh	<i>Tetrameryx shuleri</i>
TX	<i>Taxidea</i> sp.	TXta	<i>Taxidea taxus</i>

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## LOCALITY DATA BY MACHINE NUMBER

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1	Chimney Rock Animal Trap	CO	Larimer	QP	Sandcreek Pass	405200	1054500
2	Lindenmeier	CO	Weld	QP	Round Butte	405200	1050000
3	Jones-Miller	CO	Yuma	QP	Beecher Island NW	395200	1020700
4	Selby	CO	Yuma	QP	Vernon	395200	1021500
5	Lamb Spring	CO	Douglas	E	Littleton	393000	1050400
6	Blackwater Draw Loc. 1	NM	Roosevelt	E	Oasis State Park	341700	1031900
7	Spring Canyon	TX	Hutchinson	E	Sanford	354300	1013300
8	Roper	TX	Hutchinson	E	Sanford	354200	1013400
9	Alibates	TX	Potter	E	Alibates Ranch	353400	1014000
10	Canyon City Club Cave	TX	Randall	QA	Buffalo Stadium	350000	1015200
11	Rex Rodgers	TX	Briscoe	QA	Cope Creek	343000	1012200
12	Deadman's Shelter	TX	Swisher	QP	Cope Creek	343000	1012200
13	Lubbock Lake	TX	Lubbock	E	Lubbock West	333713	1015331
14	Dutton	CO	Yuma	QP	Idalia	393700	1021500
15	Green's Creek	ON					
16	Peccary Cave	AR	Newton	QA	Mt. Judea	355200	930000
17	Carter	OH	Darke	E	Ansonia	401200	844100
18	Moonshiner	ID	Bingham	QP	Middle Butte	432200	1123700
19	Jaguar Cave	ID	Lemhi	E	Rocky Creek	441700	1123500
20	Dry Creek Rockshelter	ID	Ada	QA	Boise North	433700	1160700
21	Bell Cave	WY	Albany	E	Guide Rock	414500	1052200
22	Little Box Elder Cave	WY	Converse	E	Hermit Rock	423700	1053700
23	Little Canyon Creek Cave	WY	Washakie	E	Cabin Fork	435200	1073700
24	Natural Trap Cave	WY	Big Horn	QP	Natural Trap	445200	1080700
25	Cahokia	IL	St. Clair	E	Monk's Mound	383946	900517
26	Laurens	IL	Randolph	QP	Bloomdsale	380000	900000
27	Phipps	IA	Cherokee	E	Cherokee North	424500	953000
28	New Paris #4	PA	Bedford	E	Schellsburg	400500	783900
29	Eagle Cave	WV	Pendleton	E	Onego	385000	791700
30	Natural Chimneys	VA	Augusta	E	Parnassus	382200	780500
31	Clark's Cave	VA	Bath	E	Williamsville	380510	793925

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
32	Baker Bluff Cave	TN	Sullivan	E	Boone Dam	362730	822800
33	Robinson Cave	TN	Overton	E	Okalona	361725	852225
34	Ladd's Quarry	GA	Bartow	E	Centersville	340900	845000
35	Bat Cave	MO	Pulaski	QA	Crocker	375200	921500
36	Brynjulfson Cave #1	MO	Boone	E	Columbia	385107	921650
37	Wilson Butte Cave	ID	Jerome	E	Twin Falls	424600	1141300
38	Potter Creek Cave	CA	Shasta	E	O'Brien	404702	1221651
39	Samwell Cave	CA	Shasta	E	Bollibokka Mountain	405500	1221417
40	Bell	WI	Winnebago	QA	Oshkosh	440000	883000
41	Schultz	MI	Saginaw	E	Saginaw	432300	835900
42	Etowah	GA	Bartow	E	Centersville	340500	845000
43	Law's	AL	Marshall	QC	Mount Carmel	342200	861500
44	Aztalan	WI	Jefferson	E	Lake Mills	430000	885500
45	Bornick	WI	Marquette	E	Neshkoro	434800	891500
46	Durst	WI	Sauk	QC	Rock Springs	432200	895200
47	Graham Cave	MO	Montgomery	E	Montgomery City	385400	913400
48	Arnold Research Cave	MO	Callaway	E	Morrison	384400	914500
49	Raddatz Rockshelter	WI	Sauk	E	Black Hawk	432100	895600
50	Zimmerman	IL	La Salle	QP	Starved Rock	411500	885200
51	Heins Creek	WI	Door	E	Sister Bay	450100	870900
52	Mero	WI	Door	QC	Sturgeon Bay West	444500	872200
53	Globe Hill	WV	Hancock	QC	East Liverpool South	403000	803400
54	Strait Canyon	VA	Highland	E	Doe Hill	382814	793042
55	Middle Butte Cave	ID	Bingham	QP	Middle Butte	432200	1123700
56	Crystal Ball Cave	UT	Millard	QC	Long Ridge SE	390000	1130000
57	Eagle Cave	AB		E		493810	1143824
58	Smith Springs	NE	Cherry	QC	Chesterfield Flats	423000	1010000
59	Fort Ouiatenon	IN	Tippecanoe	QP	Lafayette West	402200	865200
60	Loop Creek Quarry Cave	VA	Russell	QA	Honaker	370000	815200
61	Back Creek Cave 1	VA	Bath	E	Mountain Grove	380400	795330
62	Ripplemead Quarry	VA	Giles	QA	Oakvale	371500	805200
63	Cheek Bend Cave	TN	Mauzy	QA	Glendale	353000	865200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
64	January Cave	AB		E		501118	1143106
65	Darty Cave	VA	Scott	E	Hilton	364140	822817
66	Prairie Creek	IN	Daviess	E	Washington	384251	871016
67	Pabst	IL	De Witt	E	De Witt	401016	885007
68	Crawford Farm	IL	Rock Island	QP	Milan	412200	903000
69	Kuhlman	IL	Cass	QP	Beardstown	400000	902200
70	Anderson Peat Mine	IL	Whiteside	QP	Union Grove	414500	900000
71	Bell Cave	AL	Colbert	E	Pride	344346	874732
72	McKees Rocks Village	PA	Allegheny	E	Pittsburgh East	402820	800259
73	Drew	PA	Allegheny	E	Bridgeville	402204	800708
74	Oakfield	NY	Genesee	QA	Oakfield	430000	781500
75	Eschelman	PA	Lancaster	QC	Lancaster	400000	761500
76	Indian Knoll	KY	Ohio	QA	Paradise	371500	865200
77	Deer Creek Cave	NV	Elko	QA	Jarbridge South	414500	1152200
78	Meadowcroft Rockshelter	PA	Washington	E	Avella	401712	802900
79	Janitor	PA	Westmoreland	QC	Latrobe	401500	792200
80	Watson Farm	WV	Hancock	QC	Weirton	402200	803400
81	Campbell	PA	Fayette	E	Fayette City	400032	795104
82	Hartley	PA	Greene	E	Carmichael	395510	795802
83	Mathies Mine Village	PA	Washington	QC	Washington West	400700	801500
84	Bonnie Brook	PA	Butler	QC	Mount Chestnut	405200	795200
85	Murphy's Old House	PA	Armstrong	QC	Mosgrove	404500	792200
86	Wadding Shelter	PA	Armstrong	QC	Mosgrove	404500	792200
87	Mount Carbon	WV	Fayette	E	Montgomery	380800	811700
88	Boyle	PA	Washington	QA	Washington East	400700	800700
89	Old Crow IIA	YU		E		674910	1395415
90	Bronco Charlie	NV	Elko	QC	Welcome	410000	1150000
91	Lander Shelter	ON					
92	Sidey-Mackey	ON		E		441920	800715
93	Roebuck Village	ON		E		444830	753530
94	Bryan	MN	Goodhue	QA	Diamond Bluff West	443700	923700
95	Johnston	WV					

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
96	Madisonville	OH	Hamilton	QA	Cincinnati East	390700	842200
97	Anderson	OH	Warren	QA	Clifton	394500	834500
98	Feurt	OH	Scioto	QA	West Portsmouth	384500	830000
99	Baum	OH	Ross	QA	Bourneville	391500	830700
100	Inverhuron	ON		E		441745	813540
101	Uren	ON	Oxford	E		425635	803530
102	Middleport	ON		E		432713	804145
103	Snell	NY	Montgomery	QC	Randall	425200	742200
104	Frontenac Island	NY	Cayuga	E	Union Springs	425100	764200
105	Kipp Island	NY	Seneca	E	Cayuga	425932	764339
106	Lawson	ON	Middlesex	E		430045	811800
107	Cramer Village	OH	Ross	QA	Kingston	392200	825200
108	Rock Run Shelter	IA	Cedar	E	Rochester	414200	911100
109	Wilson Sand Hill	NY					
110	Lasley's Point	WI	Winnebago	E	Oshkosh NW	440800	884100
111	Juntunen	MI	Mackinac	E	Evergreen Shores	454900	843500
112	Ft. Michilimackinac	MI	Emmet	E	McGulpin Point	454800	844500
113	Mason	TN	Franklin	QA	Belvidere	350700	860700
114	Smith Creek Cave	NV	White Pine	E	Mt. Moriah	392000	1140500
115	Snake Creek Burial Cave	NV	White Pine	QA	Kious Spring	385200	1140700
116	North Cove	NE	Harlan	QC	Orleans	400700	992200
117	Hidden Cave	NV	Churchill	Q	Grimes Point	392200	1183700
118	Fort De Chartres	IL	Randolph	QP	Bloomdsale	380000	900000
119	Harder	SK		E		521237	1070301
120	Younge	MI	Lapeer	QC	Lapeer	430000	831500
121	Westmoreland - Barber	TN	Marion	E	Sequatchie	350115	853245
122	Bonfire Shelter	TX	Val Verde	E	Langtry	294900	1013300
123	Turner Farm	ME	Knox	QA	North Haven East	440700	684500
124	Ceremonial Cave	TX	El Paso	QA	Hueco Tanks	315200	1060000
125	Valley Farms	TX	Navarro	QA	Styx	321500	961500
126	Carpenter Farm	TX	Freestone	QA	Roustabout Camp	315200	960000
127	Leo Boatwright Gravel Pit	TX	Henderson	QA	Malakoff	320700	960000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
128	Bishop Gravel Pit No. 2	TX	Henderson	QA	Malakoff	320700	960000
129	Wharton Gravel Pit	TX	Henderson	QA	Malakoff	320700	960000
130	Bishop Gravel Pit No. 3	TX	Henderson	QA	Malakoff	320700	960000
131	Bishop Gravel Pit No. 1	TX	Henderson	QA	Malakoff	320700	960000
132	Locality 31538	TX	Anderson	QA	Cayuga	315200	955200
133	Berclair Terrace Site 1	TX	Bee	QA	Berclair	283000	973000
134	Howard Ranch	TX	Hardeman	QA	North Groesbeck	342200	994500
135	Clear Creek Local Fauna	TX	Denton	QA	Green Valley	331500	970000
136	Ben Franklin	TX	Fannin	QA	Pecan Gap	332200	954500
137	Wunderlich	TX	Comal	QA	Fischer	295200	981500
138	Footbridge	TX	Comal	QA	Devil's Backbone	295200	980700
139	Oblate	TX	Comal	QA	Fischer	295200	981500
140	Williams Cave	TX	Culberson	QA	Guadalupe Peak	315200	1044500
141	Zopilote	TX	Val Verde	QA	California Creek	293000	1010000
142	Coontail Spin	TX	Val Verde	E	Seminole Canyon	293900	1011800
143	Navar Ranch No. 13	TX	El Paso	E	Hueco Tanks	315400	1060900
144	Hueco Tanks No. 1	TX	El Paso	E	Hueco Tanks	315400	1060900
145	Tank Trap Wash No. 1	TX	El Paso	E	Hueco Tanks	315400	1060900
146	Dust Cave	TX	Culberson	QA	Guadalupe Peak	315200	1044500
147	Lower Sloth Cave	TX	Culberson	QA	P X Flat	315200	1045200
148	Montell Shelter	TX	Uvalde	QA	Montell	293000	1000000
149	Cinnabar Mine	TX	Brewster	E	Terlingua	291920	1033645
150	Levi Shelter	TX	Travis	E	Shingle Hills	302130	980600
151	Kyle	TX	Hill	E	Lakeside Village	320201	972513
152	Barton Road	TX	Travis	E	Austin West	301500	974600
153	Cueva Quebrada	TX	Val Verde	E	Shumla	294400	1012400
154	Miller's Cave	TX	Llano	E	Oxford	303512	983812
155	Schulze Cave	TX	Edwards	QA	Telegraph	301500	995200
156	Devil's Mouth	TX	Val Verde	QA	Amistad Dam	292200	1010000
157	Rattlesnake Cave	TX	Kinney	QA	Bracketteville	291500	1002200
158	Longhorn Cavern	TX	Burnet	QP	Longhorn Cavern	303700	981500
159	Cave Without A Name	TX	Kendall	E	Kendalia	295300	983700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
160	Felton Cave	TX	Sutton	E	Dunbar Draw NW	302800	1003300
161	Eagle Cave	TX	Val Verde	E	Langtry	294900	1013300
162	Baker Cave	TX	Val Verde	E	Still Canyon	295900	1010600
163	Upper Sloth Cave	TX	Culberson	QA	Guadalupe Peak	315200	1044500
164	Hinds Cave	TX	Val Verde	E	Still Canyon	295329	1012624
165	Avenue	TX	Travis	QP	Austin West	301500	974500
166	Pratt Cave	TX	Culberson	QA	Guadalupe Peak	315200	1044500
167	Hueco Tanks State Hist. Pk.	TX	El Paso	QP	Hueco Tanks	315200	1060000
168	Daughtery Cave	WY	Washakie	E	Old Maid Gulch	440700	1071700
169	Sheaman	WY	Niobrara	QP	Twenty One Divide	432200	1040400
170	Butler-Rissler	WY	Natrona	QP	Clarkson Hill	423700	1063700
171	Tina-Ann's Cave	WY	Albany	QP	Bosler SE	413000	1053000
172	Glenrock Buffalo Jump	WY	Converse	QP	Parkerton	424500	1055200
173	48SH312	WY	Sheridan	QP	Fawn Draw	444500	1060700
174	Buffalo Creek	WY	Sheridan	QP	Gardner Gulch	444500	1061500
175	Agate Basin	WY	Niobrara	QP	Twenty One Divide	432200	1040400
176	Casper	WY	Natrona	QP	Casper	424500	1061500
177	Hell Gap Loess <i>Mammuthus</i> Locality	WY	Platte	QA	Hell Gap	422200	1043700
178	Bush Shelter	WY	Washakie	QP	Mahogany Butte	433700	1071500
179	Eagle Shelter	WY	Big Horn	QA	Natural Trap	445200	1080700
180	Prospects Shelter	WY	Big Horn	QP	Natural Trap	445200	1080700
181	Colby	WY	Washakie	QA	Worland	440000	1075200
182	Hell Gap	WY	Platte	E	Hell Gap	422430	1043808
183	Big Goose Creek	WY	Sheridan	E	Beckton	444400	1070900
184	Vore	WY	Crook	QA	Schoolmarm Creek	443000	1040700
185	Horse Creek	WY	Laramie	QA	Horse Creek	412200	1050000
186	Horned Owl Cave	WY	Albany	E	Guide Rock	413400	1053100
187	Douglas <i>Ovibos</i> Locality	WY	Converse	QA	Douglas	424500	1052200
188	Wedding of the Waters	WY	Hot Springs	QP	Wedding of the Waters	433000	1080700
189	Bentzen Kaufman Cave	WY	Sheridan	E	Ucross	443700	1063500
190	Hawken	WY	Crook	QA	Duling Hill	441500	1041500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
191	48PL24	WY	Platte	QA	Glendo	423000	1050000
192	Belle Fouche	WY	Crook	QP	Carlisle	442200	1044500
193	Wardell Buffalo Trap	WY	Sublette	QA	Big Piney East	423000	1100000
194	Rock Ranch Trading Post	WY	Goshen	QP	Cottier	420000	1041500
195	Worland Gravel Pit	WY	Washakie	QA	Worland	440000	1075200
196	Carter/Kerr-McGee	WY	Campbell	QP	Gillette East	441500	1052200
197	James Allen	WY	Albany	QA	Johnson Ranch	410100	1053700
198	Hanson	WY	Big Horn	QP	Leavitt Reservoir	443700	1074500
199	Union Pacific Mammoth Kill	WY	Carbon	QP	Seaverson Reservoir	413000	1073700
200	Finley	WY	Sweetwater	QP	Fifteen Mile Springs	420000	1091500
201	Hunter Ranch	WY	Laramie	QP	Meriden	413000	1041500
202	Dead Indian Creek	WY	Park	QP	Dead Indian Meadows	443700	1092200
203	Medicine Lodge Creek	WY	Big Horn	QP	Hyatt Ranch	441500	1073000
204	48LN74	WY	Lincoln	QA	Fontenelle SE	414500	1100000
205	Helen Lookingbill	WY	Fremont	QP	Indian Point	433700	1093000
206	Skull Point	WY	Lincoln	QA	Elkol	413700	1103000
207	Rawlins <i>Camelops</i> Locality	WY	Carbon	QP	Rawlins	414500	1070700
208	McCleary	WY	Natrona	QC	Reid Canyon	425200	1064500
209	John Gale	WY	Carbon	QA	Rawlins	414500	1070700
210	Espy-Cornwell	WY	Carbon	QP	Bridger Pass	413000	1072200
211	Bischoff	WY	Big Horn	QA	Simmons Canyon	445200	1080000
212	Worham Shelter	WY	Big Horn	E	Natural Trap Cave	445930	1081400
213	Scoggin	WY	Carbon	QA	Hanna	414500	1063000
214	Piney Creek	WY	Johnson	E	Horse Hill	443100	1064700
215	Leigh Cave	WY	Washakie	E	Old Maid Gulch	440500	1071900
216	Hole in the Wall Shelter	WY	Big Horn	QA	Simmons Canyon	445200	1080000
217	Boar's Tusk	WY	Sweetwater	QA	Boar's Tusk	415200	1090700
218	48CA1391	WY	Campbell	QP	Saddle Horse Butte	440000	1051500
219	McKean	WY	Crook	QP	Grasshopper Butte	441500	1044500
220	48LN1469	WY	Lincoln	QA	Kemmerer	414500	1103000
221	Bessie Bottom	WY	Uinta	QP	Myers Reservoir	410100	1105200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
222	Casper City Dump	WY	Natrona	QP	Casper	424500	1061500
223	Fort Laramie <i>Mammuthus</i> Locality	WY	Goshen	QP	Wheatland	420000	1045200
224	Fort Laramie <i>Equus</i> Locality	WY	Goshen	QP	Register Cliffs	420700	1043700
225	Hot Springs <i>Ovis</i> Locality	WY	Hot Springs	QP	Adam Weiss Peak	435200	1084500
226	Big Horn River Muskox Locality	WY	Big Horn	QP	Kane	444500	1080700
227	Horner	WY	Park	QP	Cody	443000	1090000
228	River Bend	WY	Natrona	QP	Goose Egg	424500	1062200
229	Buffalo Hump	WY	Sweetwater	QP	Luman Rim	420000	1082200
230	Deer Creek	WY	Big Horn	QA	Simmons Canyon	445200	1080000
231	Pine Springs	WY	Sweetwater	QP	Minnies Gap	410100	1092200
232	Austin Wash	WY	Uinta	QP	Austin Reservoir	412200	1101500
233	48UT199	WY	Uinta	QP	Church Butte	413000	1100700
234	48UT779	WY	Uinta	QA	Verne	413000	1100000
235	48UT370	WY	Uinta	QP	Verne	413000	1100700
236	Rawhide Butte	WY	Niobrara	E	Rawhide Buttes East	423700	1042900
237	Sister's Hill	WY	Johnson	E	North Ridge	441600	1064600
238	Shirley Basin	WY	Carbon	QA	Mud Springs	422200	1061500
239	Rice Cave	WY	Washakie	QA	Onion Gulch	440000	1070700
240	Maxon Ranch	WY	Sweetwater	QP	Maxon Ranch	410700	1090700
241	Hinrich's Mammoth	WY	Converse	QP	Antelope Creek	424500	1051500
242	Cache Hill	WY	Campbell	QP	Gillette West	441500	1053000
243	48AB301	WY	Albany	QP	Chalk Hills	421500	1060000
244	Bugas-Holding	WY	Park	QP	Dead Indian Meadows	443700	1092200
245	Sunlight Basin Mammoth	WY	Park	QA	Elkhorn Peak	443700	1093000
246	Sheridan Elks Club Cemetery	WY	Sheridan	QP	Sheridan	444500	1065200
247	Taliaferro	WY	Lincoln	QP	Shute Creek Lake	415200	1100700
248	48UT362	WY	Uinta	QP	Leroy	411500	1103000
249	48UT199	WY	Uinta	QA	Wildcat Butte	412200	1100000
250	48UT194	WY	Uinta	QP	Millersville	412200	1100700
251	48SW2981	WY	Sweetwater	QP	Mud Springs	412200	1061500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
252	48SW2665	WY	Sweetwater	QP	South Baxter	411500	1090000
253	48SW2429	WY	Sweetwater	QP	Little America	413000	1094500
254	48SW2385	WY	Sweetwater	QP	Verne	413000	1100000
255	48SW2356	WY	Sweetwater	QP	Verne	413000	1100000
256	48SW2302	WY	Sweetwater	QP	Verne	413000	1100000
257	48SW5981	WY	Sweetwater	QP	Bairoil	420700	1073000
258	48SW998	WY	Sweetwater	QP	Bairoil	420700	1073000
259	48CR4358	WY	Carbon	QP	Lamont	420700	1072200
260	48CA1759	WY	Campbell	QP	Reno Reservoir	433700	1051500
261	48CA403	WY	Campbell	QP	Reno Reservoir	433700	1051500
262	Birdshead Cave	WY	Fremont	QA	Morrison Canyon	432200	1081500
263	Bosler Gravel Pit	WY	Albany	QA	Laramie	411500	1053000
264	Cheyenne <i>Equus</i> Locality	WY	Laramie	QA	Cheyenne North	410700	1044500
265	Sheridan <i>Equus</i> Locality	WY	Sheridan	QA	Hultz Draw	444500	1070000
266	Stauffer Chemical Plant	WY	Sweetwater	QA	Blacks Fork Bridge	412200	1093000
267	Greybull Bentonite Pit	WY	Big Horn	QA	Greybull North	443000	1080000
268	Castle Gardens Access Road	WY	Fremont	QP	Miles Ranch	425200	1073000
269	48CR4815	WY	Carbon	QA	Seminole Dam SE	420000	1064500
270	48CR4816	WY	Carbon	QA	Seminole Dam SE	420000	1064500
271	48CR4897	WY	Carbon	QA	Seminole Dam SE	420000	1064500
272	Beehive	WY	Big Horn	QP	Hyatt Ranch	441500	1073000
273	Burnham	OK	Woods	QA	Freedom NW	364500	990000
274	Wybark	OK	Muskogee	QA	Northeast Muskogee	354500	951500
275	Roulston-Rogers	OK	Seminole	QA	Sasakwa	345200	963000
276	Lee II	OK	Garvin	QA	Lindsay	344500	973000
277	Domebo	OK	Caddo	QP	Apache	345200	981500
278	Ross	OK	Caddo	QA	Hinton	352200	981500
279	McLemore	OK	Washita	QA	Colony	351500	983700
280	Lee	OK	Garvin	QA	Lindsay	344500	973000
281	Heerwald	OK	Custer	QA	Stafford	353000	990000
282	Pohly	OK	Mayes	QA	Salina SE	361500	950000
283	McGrath	OK	Texas	QA	Guymon	363700	1012200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
284	James	OK	Bryan	QA	Little City	340000	963000
285	Grant	OK	Garvin	QA	Pauls Valley	343700	970700
286	Duncan-Wilson Bluff Shelter	OK	Caddo	QA	Binger	351500	981500
287	Roy Smith	OK	Beaver	QA	Turpin West	364500	1005200
288	Lawrence	OK	Nowata	QA	Nowata East	363700	953000
289	Weston	OK	Osage	QA	Bowring SE	364500	960000
290	School Land I	OK	Delaware	E	Grove	363900	944200
291	School Land II	OK	Delaware	E	Grove	363900	944200
292	Bowling Alley	OK	Kay	QA	Ponca City	363700	970000
293	Robertson	OK	Grady	QC	Tabler	350000	974500
294	Williams	OK	Grady	QC	Tabler	350000	974500
295	O'Neal	OK	Grady	QC	Tabler	350000	974500
296	Lindsay-Murray Mansion	OK	Garvin	QC	Elmore City NE	343700	971500
297	Sterr	OK	Grady	QC	Tabler	350000	974500
298	Jewett	OK	Grady	QC	Tabler	350000	974500
299	Gd-117	OK	Grady	QC	Tabler	350000	974500
300	Sparks	OK	Grady	QC	Tabler	350000	974500
301	Spiro	OK	Le Flore	QA	Spiro	350700	943000
302	Ayers	OK	Marshall	QA	Madill	340000	964500
303	Manwell	OK	Oklahoma	QA	Choctaw	352200	971500
304	Arthur	OK	Garvin	QA	Paoli	344500	971500
305	Cookson	OK	Cherokee	QP	Cookson	353700	945200
306	Swisher Mammoth	OK	Oklahoma	QA	Piedmont	353700	973700
307	Wishon	OK	Oklahoma	QA	Piedmont	353700	973700
308	Holmes Mammoth	OK	Oklahoma	QA	Piedmont	353700	973700
309	Allison-Meniffee Mammoth	OK	Oklahoma	QA	Piedmont	353700	973700
310	Zimms	OK	Roger Mills	QA	Roll SE	354500	993000
311	Wann	OK	Le Flore	QC	Wister	345200	943700
312	Scott	OK	Le Flore	QC	Wister	345200	943700
313	Delaware Canyon 34CD258E	OK	Caddo	QC	Sickles	351500	982200
314	Delaware Canyon 34CD258D	OK	Caddo	QC	Sickles	351500	982200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
315	Delaware Canyon 34CD258C	OK	Caddo	QC	Sickles	351500	982200
316	Delaware Canyon 34CD258B	OK	Caddo	QC	Sickles	351500	982200
317	Delaware Canyon 34CD258A	OK	Caddo	QC	Sickles	351500	982200
318	Delaware Canyon 34CD255PV	OK	Caddo	QC	Sickles	351500	982200
319	Delaware Canyon 34CD257A	OK	Caddo	QC	Sickles	351500	982200
320	Perry Ranch	OK	Jackson	QA	Altus	343700	991500
321	Fort Washita	OK	Bryan	QP	Little City	340000	963000
322	Copperhead Cave	OK	Osage	QC	Bluestem Lake	363700	962200
323	Cut Finger	OK	Osage	QC	Bluestem Lake	363700	962200
324	Big Hawk Shelter	OK	Osage	QA	Hominy	362200	962200
325	Cedar Creek	OK	Osage	QC	Bluestem Lake	363700	962200
326	Birch Bend Shelter	OK	Osage	QC	Bluestem Lake	363700	962200
327	Painted Shelter	OK	Osage	QC	Bluestem Lake	363700	962200
328	Birdnest Cave	OK	Osage	QC	Bluestem Lake	363700	962200
329	Sunny Shelter	OK	Osage	QC	Bluestem Lake	363700	962200
330	Shallow Shelter	OK	Osage	QC	Bluestem Lake	363700	962200
331	Spring Shelter	OK	Osage	QC	Bluestem Lake	363700	962200
332	Bryson-Paddock	OK	Kay	QC	Kildare	364500	970000
333	Pate	OK	Garvin	QC	Elmore City NE	343700	971500
334	Brynjulfson Cave #2	MO	Boone	QP	Columbia	385200	921500
335	Flycatcher Village	MO	Cedar	QA	Stockton	373700	934500
336	New Paris #2	PA	Bedford	E	Bedford	400500	783900
337	Gnagey	PA	Somerset	QC	Stoystown	400000	785200
338	Buffalo Village	WV	Putnam	E	Mount Olive	383500	820000
339	Avery Island	LA	Iberia	QA	New Iberia South	295200	914500
340	Boucher	VT	Franklin	QA	Highgate Center	445200	730000
341	Thirty Mile Mesa	MT	Musselshell	QA	Park Coulee	460700	1082200
342	Boarding School	MT	Glacier	E	Sharp Lake	483818	1125727
343	Kobold	MT	Big Horn	QA	Spring Creek Ranch	451500	1070000
344	Mini-Moon	MT	Dawson	QC	Stinking Coulee	471500	1045200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
345	24GF250	MT	Garfield	QA	Buffalo Hill	473000	1064500
346	Birdtail Butte	MT	Blaine	QA	Suction Butte	480700	1090000
347	Powers-Yonkee	MT	Powder River	QP	Stayle Hill	452200	1052200
348	Cremer	MT	Sweetgrass	QC	Big Timber	454500	1095200
349	Robert	KS	Meade	QA	Irish Flats	370100	1002200
350	NUZUM	KS	Doniphan	E	Oregon	395620	951505
351	Solomon River 14ML15	KS	Mitchell	QC	Solomon Rapids	392200	980700
352	Solomon River 14ML5	KS	Mitchell	QC	Solomon Rapids	392200	980700
353	Elliott (14GE303)	KS	Geary	QA	Ogden	390000	963700
354	Sutter	KS	Jackson	QC	Soldier Creek NE	392200	954500
355	Jones	KS	Meade	QA	Lake Meade	370700	1002200
356	Trapshoot	KS	Rooks	QA	Plainville	390700	991500
357	Coffey	KS	Pottawatomie	QA	Blue Rapids SE	393000	963000
358	Trowbridge	KS	Wyandotte	QA	Parkville	390700	943900
359	Ouray Homestead	CO	Montrose	QC	Moore Mesa	382200	1081500
360	Porcupine Cave	CO	Park	E	Cameron Mountain	384345	1055141
361	Michaud Site B	CO	Lincoln	QA	Strasburg SE	393000	1041500
362	Michaud Site A	CO	Lincoln	QA	Strasburg SE	393000	1041500
363	Duckfoot	CO	Montezuma	QA	Pleasant View	373000	1084500
364	Sand Canyon Pueblo	CO	Montezuma	QA	Pleasant View	373000	1084500
365	Green Lizard	CO	Montezuma	QA	Bowdish Canyon	371500	1085200
366	Roberts Buffalo Jump	CO	Larimer	QA	Poudre Park	403700	1051500
367	48CA2330	WY	Campbell	QP	Reno Reservoir	433700	1051500
368	48CA2227	WY	Campbell	QP	Reno Reservoir	433700	1051500
369	48CA1751	WY	Campbell	QP	Reno Reservoir	433700	1051500
370	48CA1729	WY	Campbell	QP	Reno Reservoir	433700	1051500
371	48CA897	WY	Campbell	QP	Reno Reservoir	433700	1051500
372	Spring Creek Cave	WY	Washakie	QA	Castle Gardens	435200	1073000
373	King Hill	MO	Buchanan	QP	St. Joseph North	394500	944500
374	Hoffer	MT	Choteau	QA	Dark Butte	474500	1095200
375	Hillside	MO	Monroe	QA	Stoutsville	393000	914500
376	Hatten	MO	Monroe	QA	Stoutsville	393000	914500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
377	Cave	MO	Monroe	QA	Stoutsville	393000	914500
378	Cooper	MO	Monroe	QA	Stoutsville	393000	914500
379	Pigeon Roost Creek	MO	Monroe	QA	Stoutsville	393000	914500
380	Quinlan Local Fauna	OK	Woodward	QP	Quinlan	362200	990000
381	Gillette	SD	Stanley	QP	Iron Post Butte	443700	1003700
382	Hosterman	SD	Potter	QA	Patch Skin Buttes SE	450000	1001500
383	Blue Blanket Island	SD	Walworth	QA	Mobridge	453000	1002200
384	Spain	SD	Lyman	QA	Iona NW	433700	992200
385	Arzbarger	SD	Hughes	QA	Rousseau	441500	1000000
386	Demery	SD	Corson	QP	Mahto NE	455200	1003000
387	Pascal Creek	SD	Dewey	QA	No Heart Creek SE	444500	1003000
388	McKensy Village	SD	Dewey	QA	No Heart Creek SE	444500	1003000
389	Molstad Village	SD	Dewey	QA	Moreau NW	452200	1002200
390	Fire Cloud	SD	Buffalo	QP	Big Band Dam SE	440000	991500
391	Spawn Mound	SD	Lake	QA	Lake Madison	435200	970000
392	Fox Island	SD	Dewey	QA	Moreau NW	452200	1002200
393	Mitchell	SD	Davison	QP	Mitchell	433700	980000
394	Indian School	SD	Hughes	QP	Antelope Island	441500	1000700
395	Lower Grand	SD	Corson	QA	Wakpala SE	453000	1003000
396	Travis I	SD	Corson	QA	Wakpala	453700	1003000
397	Helb	SD	Campbell	E	Pollock SE	454709	1002055
398	Jake White Bull	SD	Corson	QP	Kenel	454500	1002200
399	Spotted Bear	SD	Hughes	E	Willow Creek Butte	442730	1002735
400	Cottonwood	SD	Hughes	QA	Pierre NE	442200	1001500
401	Four Bear	SD	Dewey	QA	Four Bear Creek	450900	1001500
402	Arp	SD	Brule	QA	Red Lake East	433700	990700
403	Anton Rygh	SD	Campbell	E	Mobridge NW	453900	1002330
404	Larson	SD	Walworth	E	Mobridge	453110	1002445
405	Stelzer	SD	Dewey	E	Moreau NE	452600	1002000
406	Oakwood Lakes	SD	Brookings	QP	Bruce	442200	965200
407	Hitchell	SD	Charles Mix	E	Lucas SE	431755	990120
408	Dinehart	SD	Lyman	E	Chamberlain	435117	991956

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
409	Swanson	SD	Brule	E	Bedashosha Lake	435341	991956
410	Crow Creek	SD	Buffalo	E	Bedashosha Lake	435848	991950
411	Talking Crow	SD	Buffalo	E	Big Bend Dam SE	440139	992211
412	Black Partizan	SD	Lyman	QP	Lower Brule	440000	993000
413	Jandreau	SD	Lyman	E	Lower Brule SW	440530	993955
414	Sommers	SD	Stanley	E	De Grey	441528	995648
415	Ft. George V	SD	Stanley	E	Rousseau	441651	1000141
416	Buffalo Pasture	SD	Stanley	E	Oahe Dam	442719	1002544
417	Ayala	TX	Hidalgo	QA	Pharr	260700	980700
418	Thomas Riggs	SD	Hughes	E	Willow Creek Buttes	442907	1003407
419	H. P. Thomas	SD	Stanley	E	Iron Post Buttes	444053	1003754
420	Red Horse Hawk	SD	Corson	E	Mobridge	453419	1002841
421	Medicine Crow	SD	Buffalo	E	Lower Brule	440450	993104
422	Jiggs Thompson	SD	Lyman	E	Lower Brule NE	441125	993548
423	Walth Bay	SD	Walworth	QP	Akaska NW	452200	1000700
424	Royel Goodenow	NE	Loup	QC	Taylor NW	415200	992200
425	Mowry Bluff	NE	Frontier	E	Cambridge	402238	1001312
426	Schmidt	NE	Howard	QP	Elba	411500	983000
427	Shipman	NE	Webster	QA	Cowles	400700	982200
428	Bill Packer	NE	Sherman	E	North Loup	412300	984522
429	Lime Creek	NE	Frontier	QP	Medicine Creek Dam	402200	1000700
430	Walker-Gilmore	NE	Cass	QA	Murray	405200	955200
431	Tramp Deep	NE	Knox	QP	Tabor SE	424500	973000
432	Niobrara Railroad Bridge	NE	Knox	QP	Niobrara	424500	980000
433	Smith Falls Local Fauna	NE	Cherry	QA	Muleshoe Creek	424500	1000700
434	Litchfield Local Fauna	NE	Sherman	QP	Litchfield	410700	990700
435	Crappie Hole	NE	Keith	QA	Belmar	411500	1015200
436	Brown	NE	Nance	E	Fullerton	412220	980028
437	Cunningham	NE	Nance	E	Belgrade SE	412020	980145
438	Owens	NE	Frontier	E	Freedom	402910	1001854
439	25FT39	NE	Frontier	E	Medicine Creek Dam	402450	1001440
440	Clarence Allen	NE	Frontier	E	Medicine Creek Dam	402450	1001310

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
441	25FT17	NE	Frontier	E	Medicine Creek Dam	402240	1001310
442	Aiken	NE	Frontier	E	Medicine Creek Dam	402240	1001335
443	Compton	NE	Frontier	E	Medicine Creek Dam	402300	1001310
444	25FT70	NE	Frontier	E	Medicine Creek Dam	402300	1001350
445	Logan Creek	NE	Burt	QP	Oakland	414500	962200
446	Schuyler	NE	Colfax	QP	Schuyler	412200	970000
447	Big Hidatsa	ND	Mercer	QP	Hazen East	471500	1013000
448	White Buffalo Robe	ND	Mercer	QP	Stanton	471500	1012200
449	Upper Sanger	ND	Oliver	QA	Fort Clark	470700	1010700
450	Bundlemaker	ND	Oliver	QP	Washburn	471500	1010000
451	Cross Ranch	ND	Oliver	E	Sanger	471147	1005947
452	Mondrian Tree	ND	McKenzie	QP	Buford	475200	1035200
453	Taylor Bluff	ND	Mercer	QP	Hazen East	471500	1013000
454	Elbee	ND	Mercer	QP	Stanton	471500	1012200
455	Lower Hidatsa	ND	Mercer	QP	Stanton	471500	1012200
456	Poly	ND	Mercer	QP	Stanton	471500	1012200
457	Youess	ND	Mercer	QP	Stanton	471500	1012200
458	Forkorner	ND	Mercer	QP	Stanton	471500	1012200
459	Sakakawea	ND	Mercer	QP	Stanton	471500	1012200
460	Like-A-Fishhook	ND	McLean	QA	Blackwater Lake SE	473000	1014500
461	Man	ND	Oliver	QP	Fort Clark NE	470700	1010000
462	Stoney	ND	Oliver	QP	Fort Clark NE	470700	1010000
463	Legacy	ND	Oliver	QP	Fort Clark NE	470700	1010000
464	Ice Glider	ND	Oliver	QP	Washburn	471500	1010000
465	Greenshield	ND	Oliver	QP	Washburn	471500	1010000
466	Huff	ND	Morton	E	Huff	463708	1003830
467	Paul Brave	ND	Sioux	QP	Mahto NE	455700	1003230
468	Shermer	ND	Emmons	QA	Moffit SW	463000	1002200
469	McCarroll	ND	Renville	QP	Mouse River Park	484500	1014500
470	Curtis Ones	ND	Renville	QP	Mouse River Park	484500	1014500
471	32RV9	ND	Renville	QP	Mouse River Park	484500	1014500
472	Naze	ND	Stutsman	QA	Montpelier	463700	983000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
473	Rabic	ND	Oliver	QP	Sanger	470700	1005200
474	Tree Top	ND	Oliver	QP	Sanger	470700	1005200
475	Lehmer	ND	Oliver	QP	Turtle Creek SW	471500	1005200
476	Gladys	ND	Oliver	QP	Sanger	470700	1005200
477	Carroll	ND	Oliver	QP	Sanger	470700	1005200
478	Hat	ND	Oliver	QP	Sanger	470700	1005200
479	Shide	ND	Oliver	QP	Sanger	470700	1005200
480	Rivera	ND	Oliver	QP	Sanger	470700	1005200
481	South Cannonball	ND	Sioux	E	Cannanball	462444	1003525
482	Ft. Union	ND	Williams	QP	Bainville SE	480000	1040000
483	Kipp's Post	ND	Mountrail	QP	Rat Lake SW	480000	1023700
484	Rock Village	ND	Mercer	QP	Garrison Dam North	473000	1012200
485	Night Walker's Butte	ND	McLean	QP	Raub SE	473000	1020000
486	Bendish	ND	Morton	E	Fort Rice	463015	1003500
487	Hendrickson III	ND	Stutsman	QP	Montpelier	463700	983000
488	Jamestown Mounds	ND	Stutsman	QA	Jamestown	465200	983700
489	Pretty Point	ND	Oliver	E	Sanger	470930	1005813
490	Bagnell	ND	Oliver	E	Washburn	471454	1010022
491	Mandan Lake	ND	Oliver	E	Washburn SW	471500	1011032
492	Mahaha	ND	Oliver	E	Ft. Clark	471420	1011430
493	Ft. Clark	ND	Mercer	E	Stanton SE	471512	1011627
494	Amahami	ND	Mercer	E	Stanton	471928	1012240
495	Fence Cave Local Fauna	IA	Clayton	E	Edgewood	424215	912450
496	State School	IA	Mills	QP	Pacific Junction	410000	954500
497	Institution-2	IA	Mills	QP	Pacific Junction	410000	954500
498	13ML133	IA	Mills	QP	Pacific Junction	410000	954500
499	Institution-1	IA	Mills	QP	Pacific Junction	410000	954500
500	13ML131	IA	Mills	QP	Pacific Junction	410000	954500
501	Johnson-3	IA	Mills	QP	Pacific Junction	410000	954500
502	Johnson-2	IA	Mills	QP	Pacific Junction	410000	954500
503	Johnson-1	IA	Mills	QP	Pacific Junction	410000	954500
504	13ML121	IA	Mills	QP	Pacific Junction	410000	954500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
505	Kuhl-4	IA	Mills	QP	Pacific Junction	410000	954500
506	Kuhl-3	IA	Mills	QP	Pacific Junction	410000	954500
507	Kuhl-2	IA	Mills	QP	Pacific Junction	410000	954500
508	Kuhl-1	IA	Mills	QP	Pacific Junction	410000	954500
509	Gamble	IA	Mills	QP	Pacific Junction	410000	954500
510	Lincoln I	IA	Mills	QP	Pacific Junction	410000	954500
511	Grant	IA	Allamakee	QP	Waukon NW	432200	912200
512	Christenson	IA	Polk	QP	Des Moines NW	413700	933700
513	Clarkson	IA	Warren	QA	Scotch Ridge	412200	933000
514	Chan-ya-ta	IA	Buena Vista	QP	Peterson SE	424500	951500
515	Robert Battey	IA	Jackson	QC	Andrew	420900	903000
516	McQuistan	IA	Wapello	QA	Chilicothe	410000	923000
517	Saylorvillage	IA	Polk	QP	Des Moines NW	413700	933700
518	13WD405	IA	Woodbury	QA	Sioux City North	423000	962200
519	Tener	IA	Washington	QP	Riverside	412200	913000
520	Cribb's Crib	IA	Warren	QP	Hartford	412200	932200
521	Murl Brown Bison Kill	IA	Ida	QP	Holstein SW	421500	953700
522	Sweet Jane	IA	Boone	QA	Fraser	420700	935200
523	Coldwater Cave	IA	Winneshek	QP	Bluffton	432200	915200
524	Broken Kettle West	IA	Plymouth	QA	Akron	424500	963000
525	Elkader	IA	Clayton	QP	Elkader	424500	912200
526	Wittrock	IA	O'Brien	QP	Sutherland East	425200	952200
527	Dixon	IA	Woodbury	QP	Correctionville	422200	954500
528	Fingerprint Cave	TX	Dawson	QA	O'Donnell	325200	1014500
529	Garrett Farm	IA	Mills	E	Tabor NE	405800	954200
530	Pleasant Ridge	IA	Mills	E	Tabor NE	405800	954200
531	Brewster	IA	Cherokee	QA	Cherokee North	424500	953000
532	Thurman	IA	Fremont	QP	McPaul	404500	954500
533	Kingston	IA	Des Moines	QA	Sperry	405200	910700
534	Hadfield's Cave	IA	Jones	QP	Cascade	421500	910000
535	Michel's Cave	IA	Jackson	QP	Springbrook	420700	902200
536	Woodpecker Cave	IA	Johnson	QP	Iowa City West	413700	913000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
537	McKinney	IA	Louisa	QA	Wapello	410700	910700
538	Lane Enclosure	IA	Allamakee	QP	Waukon NW	432200	912200
539	Rainbow	IA	Plymouth	QP	Hinton	423700	961500
540	Willard Cave	IA	Delaware	E	Garber	423800	911750
541	Schmitt	IA	Dubuque	QA	Dyersville East	422200	910000
542	Mud Creek	IA	Cedar/Scott	QP	Bennett	413700	905200
543	Dows	IA	Franklin	QP	Dows East	423700	932200
544	Arthur	IA	Dickenson	QA	Spirit Lake	432200	950000
545	Milford	IA	Dickenson	QP	Milford	431500	950700
546	Cherokee Sewer	IA	Cherokee	E	Cherokee South	424321	954324
547	M.A.D.	IA	Crawford	QA	Denison	420000	951500
548	Brayton	IA	Audubon	QP	Audubon	413700	945200
549	Waubonsie	IA	Mills	E	Tabor NE	405729	954407
550	Craigmile	IA	Mills	E	Tabor NE	405729	954407
551	Conklin Quarry	IA	Johnson	QP	Iowa City West	413700	913000
552	Eagle Point	IA	Clinton	E	Clinton NW	415415	901170
553	13LA30	IA	Louisa	QP	Toolesboro	410700	910000
554	13LA38	IA	Louisa	QP	Toolesboro	410700	910000
555	Cascade House	CO	Montezuma	QP	Trimble Point	373000	1083000
556	Apricot Hamlet	CO	Montezuma	QP	Trimble Point	373000	1083000
557	Recon John Shelter	CO	Pueblo	QA	Timber Mountain	383000	1044500
558	Hulme	NE	Hall	QA	Shelton NE	405200	983000
559	Claypool	CO	Washington	QA	Otis	400700	1025200
560	Cattleguard	CO	Alamosa	QP	Zapata Ranch	373700	1053000
561	Fowler-Parrish	CO	Morgan	QP	Orchard	401500	1040000
562	Linger	CO	Alamosa	QA	Medano Ranch	373700	1053700
563	Frasca	CO	Logan	QA	Wildhorse Lake	403700	1032200
564	Olsen-Chubbuck	CO	Cheyenne	E	Eureka Creek South	384055	1023125
565	Zapata	CO	Alamosa	QA	Medano Ranch	373700	1053700
566	Dent	CO	Weld	E	Platteville	401900	1044900
567	Jurgens	CO	Weld	QA	Kersey	402200	1043000
568	Sun River	MT	Cascade	QA	Manchester	473000	1112200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
569	Holmes Terrace	MT	Fergus	QA	P N Ranch	473700	1093700
570	Big Lip	MT	Carbon	QP	Mystery Cave	450000	1081500
571	Montana Ice Cave	MT	Fergus	QA	South Bench	464500	1090000
572	County Line	MT	Missoula	QC	Blue Point	465200	1134500
573	Lightning Spring	SD	Harding	QA	Ludlow	454500	1032200
574	Ellison's Rock	MT	Rosebud	QA	Colstrip West	455200	1063700
575	Bootlegger Trail	MT	Toole	QP	Pondera School	481500	1111500
576	Shield Trap	MT	Carbon	QP	East Pryor Mountain	450700	1081500
577	False Cougar Cave	MT	Carbon	QP	East Pryor Mountain	450700	1081500
578	Warm Springs #1	MT	Silver Bow	QA	Orofino Mountain	460700	1123700
579	Morse Creek #1	MT	Granite	QA	Drummond	463700	1130700
580	Archery	WY	Sweetwater	QC	Baxter	413000	1090000
581	Texas Creek Overlook	CO	Rio Blanco	QA	Texas Creek	393700	1075200
582	Yarmony	CO	Eagle	QA	Radium	395200	1063000
583	Dutch Creek	CO	Jefferson	QA	Indian Hills	393000	1050700
584	5MT3	CO	Montezuma	QA	Pleasant View	373000	1084500
585	Tamarran	CO	La Plata	QP	Hermosa	372200	1074500
586	Walton Creek	CO	Routt	QP	Steamboat Springs	402200	1064500
587	Dotsero	CO	Eagle	QP	Dotsero	393700	1070000
588	Blacktail Cave	MT	Lewis and Clark	E	Rogers Pass	470500	1121700
589	Janich	MT	Musselshell	QP	Dunn Mountain North	461500	1081500
590	Drake	MT	Yellowstone	QA	Rimrock	454500	1083700
591	Hagen	MT	Dawson	QA	Glendive	470000	1043700
592	Pictograph Cave	MT	Yellowstone	QA	Soda Springs NW	453700	1082200
593	Fort Davy Crockett	CO	Moffett	QA	Big Joe Basin	404500	1084500
594	Chamber Cave	CO	Pueblo	QA	Muldoon Hill	380000	1044500
595	Gordon Creek Burial	CO	Larimer	QA	Livermore Mountain	404500	1051500
596	McEndree Ranch	CO	Baca	QA	McEndree Ranch	373000	1024500
597	Graeber Cave	CO	Jefferson	QP	Indian Hills	393000	1050700
598	Hall-Woodland Cave	CO	Jefferson	QA	Golden	394500	1050700
599	Merino	CO	Logan	QA	Merino	402200	1031500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
600	Avery Ranch	CO	Pueblo	QA	Pierce Gulch	382200	1045200
601	Pozo Hamlet	CO	Montezuma	QP	Dolores East	372200	1082200
602	Prairie Dog Hamlet	CO	Montezuma	QA	Trimble Point	373000	1083000
603	Tres Bobos Hamlet	CO	Montezuma	QA	Trimble Point	373000	1083000
604	Dos Casas Hamlet	CO	Montezuma	QA	Trimble Point	373000	1083000
605	Casa Bodega Hamlet	CO	Montezuma	QA	Trimble Point	373000	1083000
606	Lemoc Shelter	CO	Montezuma	QP	Trimble Point	373000	1083000
607	Poco Tiempo Hamlet	CO	Montezuma	QA	Yellow Jacket	373000	1083700
608	Periman Hamlet	CO	Montezuma	QP	Trimble Point	373000	1083000
609	Grass Mesa Village	CO	Montezuma	QA	Trimble Point	373000	1083000
610	Kin TI'iish	CO	Montezuma	QP	Dolores East	372200	1082200
611	Prince Hamlet	CO	Montezuma	QA	Trimble Point	373000	1083000
612	Windy Wheat Hamlet	CO	Montezuma	QA	Trimble Point	373000	1083000
613	Casa Roca	CO	Montezuma	QA	Trimble Point	373000	1083000
614	Aldea Sierritas	CO	Montezuma	QA	Trimble Point	373000	1083000
615	Swan Creek	SD	Walworth	QA	Moreau SE	451500	1001500
616	Simonsen	IA	Cherokee	QA	Quimby	423700	953700
617	Breeden	SD	Stanley	QA	Oahe Dam	442200	1002200
618	14DP13	KS	Doniphan	QP	White Cloud	395200	951500
619	Ashland Bottoms	KS	Riley	QA	Keats	390700	963700
620	No Heart Creek	SD	Dewey	QA	No Heart Creek	445200	1003700
621	Stricker	SD	Lyman	QA	Lower Brule	440000	993000
622	Farm School	SD	Buffalo	QA	Big Bend Dam SE	440000	991500
623	39BR201	SD	Brule	QA	Iona NW	433700	992200
624	Edward Winslow House	MA	Plymouth	QP	Duxbury	420000	703700
625	Planters Hotel	FL	Leon	QA	Tallahassee	302200	841500
626	Scalp Creek	SD	Gregory	QA	Campbell Creek	430700	984500
627	Robinson	SD	Hughes	QA	Iron Post Buttes SE	443000	1003000
628	Edwards II	OK	Beckman	QC	Sayre	351500	993700
629	Goodman I	OK	Custer	QA	McClure	353700	991500
630	New Smith	OK	Roger Mills	QA	Roll SE	354500	993000
631	Linville II	OK	Roger Mills	QA	Hammon	353700	992200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
632	Mouse	OK	Custer	QA	McClure	353700	991500
633	Sanford Ruin	TX	Hutchinson	QA	Sanford	353700	1013000
634	Pickett Ruin	TX	Hutchinson	QA	Sanford	353700	1013000
635	Conner	TX	Hutchinson	QA	Sanford	353700	1013000
636	Medford Ranch	TX	Hutchinson	QA	Sanford	353700	1013000
637	Antelope Creek 24	TX	Hutchinson	QA	Sanford	353700	1013000
638	Antelope Creek 22A	TX	Hutchinson	QA	Sanford	353700	1013000
639	Antelope Creek 22	TX	Hutchinson	QA	Sanford	353700	1013000
640	McCormick Local Fauna	TX	Randall	QA	The Palisades	350000	1014500
641	Antonsen	MT	Gallatin	E	Bozeman Hot Springs	453925	1110950
642	Hudson-Meng	NE	Sioux	QA	Bodarc	424500	1034500
643	Plainview	TX	Hale	QA	Plainview	340700	1013700
644	Spring Creek	ND	Mercer	QA	Stanton	471500	1012200
645	Hughes Bog	IA	Linn	QA	Marion	420000	913000
646	La Paloma Ranch	TX	Kenedy	E	La Paloma Ranch	271000	975800
647	Toyah Mammoth	TX	Reeves	E	Hermosa SW	311940	1034809
648	Dye Creek	TX	Montague	QA	Saint Jo	333700	973000
649	Kassler Quad Mammoth	CO	Douglas	QP	Kassler	392200	1050000
650	Bartow	OK	Woodward	E	Quinlan	363100	990800
651	Sun River Canyon	MT	Lewis and Clark	E	Patricks Basin	473600	1125000
652	Manhattan	MT	Gallatin	E	Manhattan SW	455200	1112300
653	Stein Ranch	MT	Park	E	Miser Creek	454700	1103400
654	Lindsay Mammoth Kill	MT	Dawson	QA	Lindsay	470700	1050700
655	Dolores Muskox	CO	Montezuma	QA	Trimble Point	373000	1083000
656	24GL302	MT	Glacier	QC	Blackfoot	483000	1125200
657	Dutton Ranch No. 6	MT	Powell	QA	Bailey Mountain	463700	1125200
658	Dutton Ranch No. 4	MT	Powell	QA	Bailey Mountain	463700	1125200
659	Flint Creek No. 7	MT	Granite	QP	Limestone Ridge	463700	1130000
660	Drummond No. 1	MT	Granite	QP	Drummond	463700	1130700
661	Flint Creek No. 14	MT	Granite	QA	Drummond	463700	1130700
662	Dutton Ranch No. 8	MT	Powell	QA	Bailey Mountain	463700	1125200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
663	Dutton Ranch No. 3	MT	Powell	QA	Bailey Mountain	463700	1125200
664	Garden Gulch No. 1	MT	Granite	QA	Drummond	463700	1130000
665	Carter Creek No. 1	MT	Powell	QA	Windy Rock	463700	1124500
666	Bert Creek No. 9	MT	Granite	QA	Limestone Ridge	463700	1130000
667	Long House	CO	Montezuma	E	Moccasin Mesa	371113	1083009
668	Big Juniper House	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
669	Mug House	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
670	Biesterfeldt	ND	Ransom	QP	Venlo	462200	972200
671	Badger House	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
672	Wetherill Mesa Site 1676	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
673	Wetherill Mesa Site 1644	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
674	Mesa Verde Site 875	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
675	Mesa Verde Site 499	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
676	Mesa Verde Site 866	CO	Montezuma	QP	Wetherill Mesa	370700	1083000
677	Scottsbluff Bison Quarry	NE	Scottsbluff	QP	Robb Draw	414500	1040000
678	101 Ranch	OK	Cimarron	QP	Kenton SW	364500	1025200
679	Wiggins Ranch	OK	Cimarron	QP	Kenton	365200	1025200
680	Tesequite Canyon	OK	Cimarron	QP	Kenton	365200	1025200
681	Fowlkes Cave	TX	Culberson	QA	Kent	310000	1040700
682	Pretty Head	SD	Lyman	QP	Lower Brule	440000	993000
683	Scorpion Cave	TX	Medina	QP	Medina Lake	293000	985200
684	Gilbert	TX	Rains	QC	Emory North	325200	954500
685	Jetta Court	TX	Travis	E	Austin East	302315	974040
686	Greenhaw	TX	Hays	QP	Buda	300000	974500
687	41NU102	TX	Nueces	QP	Oso Creek NW	273700	972200
688	41NU103	TX	Nueces	QP	Oso Creek NW	273700	972200
689	Quitaque Creek	TX	Motley	QA	Northfield	341500	1003000
690	Thomas F. McKinney Homestead	TX	Travis	QP	Montopolis	300700	973700
691	Bear Creek Shelter	TX	Hill	QA	Blanton	320000	971500
692	McKinzie	TX	Nueces	QP	Annaville	274500	973000
693	Cleaver	TX	Brazoria	QP	Lake Jackson	290000	952200
694	Copperhead	TX	Brazoria	QP	Lake Jackson	290000	952200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
695	Swan Lake	TX	Aransas	QA	Bayside	280000	970700
696	Finis Frost	TX	San Saba	QA	Richland Springs	311500	985200
697	Winnie's Mound	TX	Burleson	QA	Tunis	303000	963000
698	Devil's Hollow	TX	Travis	QA	Jollyville	302200	974500
699	Holdsworth	TX	Zavala	QA	La Pryor NW	285200	994500
700	Big Rock Shelter	TX	Henderson	QC	Athens	320700	954500
701	Monk's Cave	TX	Rusk	QA	Mount Enterprise	315200	943700
702	Shanklin	TX	Wharton	QA	Hungerford	292200	960000
703	Woodland Cave	CO	Weld	QA	Carr East	405200	1044500
704	Fire Cave	CO	Weld	QA	Carr East	405200	1044500
705	Ogontz Bay	MI	Delta	QA	Ogontz	454500	864500
706	Two Teeth	SD	Buffalo	QA	Big Bend Dam	440000	992200
707	Mangus	MT	Carbon	QA	Yellowtail Dam	451500	1075200
708	Sorenson	MT	Carbon	QA	Yellowtail Dam	451500	1075200
709	Ash Coulee	MT	Prairie	QP	Terry	464500	1051500
710	KUVP <i>Symbos</i> Locality 58013	KS	Wyandotte	QA	Wolcott	390700	944500
711	KUVP <i>Symbos</i> Locality 54004	KS	Wyandotte	QA	Edwardsville	390000	944500
712	AMNH <i>Symbos</i> Locality 12669	KS	Ellsworth	QP	Wilson	384500	982200
713	Bottleneck Cave	WY	Big Horn	E	Lovell Lakes	445200	1082400
714	Lewisville	TX	Denton	QA	Denton East	330700	970000
715	Lewisville 1978-1980	TX	Denton	QA	Denton East	330700	970000
716	Laubach Cave No. 5	TX	Williamson	QA	Georgetown	303700	973700
717	Laubach Cave No. 4	TX	Williamson	QA	Georgetown	303700	973700
718	Laubach Cave No. 3	TX	Williamson	QA	Georgetown	303700	973700
719	Laubach Cave No. 2	TX	Williamson	QA	Georgetown	303700	973700
720	Laubach Cave No. 1	TX	Williamson	QA	Georgetown	303700	973700
721	Fern Cave	TX	Val Verde	QP	Baker's Crossing	295200	1010700
722	Clamp Cave	TX	San Saba	QC	Algerita	310700	984500
723	Centipede Cave	TX	Val Verde	E	Shumla	294500	1012700
724	Damp Cave	TX	Val Verde	QA	Shumla	294500	1012200
725	Zesch Cave	TX	Mason	QP	Grit	304500	991500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
726	Salt Creek	TX	Reeves	QC	Worsham	311500	1033000
727	Friesenhahn Cave	TX	Bexar	QP	Bulverde	293700	982200
728	Hueco Mountains Cave 9	TX	El Paso	QA	Hueco Tanks	315200	1060000
729	Hueco Mountains Cave 10	TX	El Paso	QA	Hueco Tanks	315200	1060000
730	Hord Rockshelter	TX	Brewster	QA	Alpine North	302200	1033700
731	Budenbender	KS	Pottawatomie	QA	Olsburg NW	392200	963700
732	Witt	KS	Geary	QP	Junction City	390000	964500
733	Smoky Hill Site 14RY401	KS	Riley	QP	Manhattan	390700	963000
734	Minnow Sparks	TX	Franklin	QA	New Hope	330000	950700
735	Belcher Mound	LA	Caddo	E	Dixie	324400	934800
736	Haystack Cave	CO	Gunnison	QP	Carpenter Ridge	382200	1070700
737	Lange/Ferguson	SD	Shannon	QA	Willow Creek	431500	1024500
738	Itasca	MN	Clearwater	QP	Lake Itasca	470700	950700
739	LaSunder Cave	CO	Garfield	QP	Broken Rib Creek	393700	1070700
740	41TG91	TX	Tom Green	QA	Twin Buttes	312200	1003000
741	Thursday Morning Cave	CO	Eagle	QP	Broken Rib Creek	393700	1070700
742	Scratching Deer	CO	Boulder	E	Ward	400228	1053548
743	Bode's Draw	CO	Larimer	E	Glen Haven	402526	1052836
744	Rollins Pass	CO	Boulder	QA	Monarch Lake	400000	1053700
745	Murray	CO	Boulder	E	Ward	400224	1053632
746	Stigenwalt	KS	Labette	QP	Cherryvale	371500	953000
747	Smart Ranch <i>Capromeryx</i> Locality	TX	Lubbock	QP	Slaton	332200	1013700
748	Pitts Bridge <i>Bootherium</i> Locality	TX	Brazos	QA	Bryan West	303700	962200
749	Lake Creek	TX	Hutchinson	QA	Camp Creek	354500	1013000
750	Lipscomb Bison Quarry	TX	Lipscomb	QA	Barton Corners	360700	1002200
751	Brooks Cave	TX	Culberson	QA	Rustler Hills	313700	1040700
752	Caldwell Ranch Site No. 1	TX	Culberson	QA	Rustler Hills	313700	1040700
753	Murrah Cave	TX	Val Verde	QA	Still Canyon	295200	1012200
754	Deep	TX	Travis	QA	Jollyville	302200	974500
755	Morris	OK	Cherokee	QP	Park Hill	354500	945200
756	Brown	OK	Grady	QA	Tuttle	351500	974500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
757	Bellevue Mound	LA	Bossier	QA	Elm Grove	321500	933000
758	Blum Rockshelter	TX	Hill	QP	Blum	320700	972200
759	Hot Springs Mammoth	SD	Fall River	QP	Hot Springs	432200	1032200
760	Davidson Sand and Gravel	NE	Red Willow	QP	Bartley	401500	1001500
761	Missouri Valley Construction Pit	NE	Red Willow	QP	McCook West	400700	1003700
762	Candelaria	CO	Archuleta	QP	Allison	370100	1072200
763	Serrano	CO	Archuleta	QP	Allison	370100	1072200
764	Railroad	CO	Archuleta	QP	Allison	370100	1072200
765	Martinez	CO	Archuleta	QP	Allison	370100	1072200
766	Sandoval Section LA-4169	CO	Archuleta	QP	Allison	370100	1072200
767	Sandoval Section LA-4120	CO	Archuleta	QP	Allison	370100	1072200
768	Sandoval Section LA-4128	CO	Archuleta	QP	Allison	370100	1072200
769	Piedra River LA-4086	CO	Archuleta	QP	Allison	370100	1072200
770	Piedra River LA-4088	CO	Archuleta	QP	Allison	370100	1072200
771	Buzzard's Roost	TX	Collingsworth	QP	Abra	350000	1002200
772	Hoover	TX	Hemphill	QP	Canadian SE	354500	1001500
773	R.O.	TX	Donley	QP	Troublesome Creek	350000	1003700
774	Finch	TX	Donley	QP	Hedley	344500	1003700
775	Sitter	TX	Donley	QP	Spencer Lake	350000	1003000
776	Collier	TX	Hall	QP	Badger Nest Tank	342200	1003000
777	Strong	TX	Collingsworth	QP	Abra	350000	1002200
778	Bell	TX	Hall	QP	Turkey	342200	1005200
779	Twilla	TX	Hall	QP	Tampico Siding	342200	1004500
780	Kenton	OK	Cimarron	QA	Kenton	365200	1025200
781	Certain	OK	Beckham	QC	Sayre	351500	993700
782	Beaver Creek Shelter	SD	Custer	QP	Wind Cave	433000	1032200
783	Coral Lodge	CO	La Plata	QA	Bayfield	370700	1073000
784	Mummy Cave	WY	Park	E	Chimney Rock	442700	1094500
785	Cooperton Mammoth	OK	Kiowa	QP	Cooperton	344500	984500
786	40DV35	TN	Davidson	QA	Nashville East	360700	863700
787	41WY65	TX	Willacy	QP	Willamar	262200	973000
788	41WY62	TX	Willacy	QP	Hawk Island	262200	972200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
789	41WY50	TX	Willacy	QP	Hawk Island	262200	972200
790	25FT58	NE	Frontier	QA	Quick	402200	1003700
791	25FT77	NE	Frontier	QA	Quick	402200	1003700
792	Doyle	NE	Red Willow	QA	Red Willow Dam	401500	1003700
793	25FT54	NE	Frontier	QA	Quick	402200	1003700
794	25RW22	NE	Red Willow	QA	Red Willow Dam	401500	1003700
795	25FT80	NE	Frontier	QA	Quick	402200	1003700
796	25FT32	NE	Frontier	QA	Quick	402200	1003700
797	Spring Creek	NE	Frontier	QA	Quick	402200	1003700
798	Miami	TX	Roberts	QP	Miami	353700	1003700
799	Elliott (14GE312)	KS	Geary	QA	Ogden	390000	963700
800	Kincaid Shelter	TX	Uvalde	E	Sabinal	292200	992800
801	Ten Mile Rock	AR	Washington	QA	Sulphur City	355200	940000
802	First American Bank	TN	Davidson	E	Oak Hill	361100	864700
803	Box Elder Creek	OK	Caddo	QA	Apache	345200	983000
804	Grassy Cove Saltpeter Cave	TN	Cumberland	E	Dorton	355016	845645
805	Big Bone Cave	TN	Van Buren	E	Doyle	354640	853321
806	Big Bone Lick Ken-1	KY	Boone	QP	Union	385200	843700
807	Big Bone Lick Ken-2	KY	Boone	QP	Union	385200	843700
808	Bootlegger Sink	PA	York	E	York Haven	400100	764330
809	Fort Ligonier	PA	Westmoreland	QP	Ligonier	400700	790700
810	Huffman Bog	OH	Richland	QP	Mansfield North	405000	823000
811	Hosterman's Pit	PA	Centre	E	Millheim	405334	772622
812	Quaker State Rockshelter	PA	Venango	E	Kennerdell	412200	794800
813	Clarksville Deer	PA	Mercer	QA	Sharon East	410700	802200
814	Duxbury	MA	Plymouth	E	Duxbury	420200	703700
815	Fairchance Mound	WV	Marshall	E	Powhatan Point	395000	805000
816	Walled Lake <i>Ursus</i>	MI	Oakland	QA	Clarkston	423700	832200
817	Rolf Lee Farm	WV	Mason	QP	Gallipolis	385200	820700
818	Overpeck	PA	Bucks	QA	Riegelsville	403000	750700
819	Fisher	PA	Greene	QA	Rogersville	395200	801500
820	Wylie Site #1	PA	Washington	E	Washington East	401222	801227

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
821	Unami Creek Shelter	PA	Montgomery	QP	Perkiomenville	401500	752200
822	Cooper	OK	Harper	QA	Buffalo	364500	993700
823	Fairport Harbor	OH	Lake	QP	Mentor	413700	811500
824	Ryan	PA	Westmoreland	E	Slickville	402329	793723
825	Powissette Rockshelter	MA	Norfolk	QA	Natick	421500	711500
826	Everhart Rockshelter	MD	Frederick	QA	Frederick	392200	772200
827	Palestine	IL	Crawford	QP	Hutsonville	390000	873700
828	Novak	PA	Fayette	QP	New Salem	395200	794500
829	Blockman	PA	Bradford	E	Towanda	414830	762900
830	Household	PA	Westmoreland	QP	Donora	400700	794500
831	Howarth-Nelson	PA	Fayette	E	Dawson	400155	793815
832	46SU3	WV	Summers	E	Pipestem	373752	805332
833	Sparks Rockshelter	KY	Johnson	E	Paintsville	375118	825218
834	Faucett	PA	Pike	E	Flatbrookville	410712	745740
835	Friendsville	MD	Garrett	QP	Friendsville	393700	792200
836	Gray	NJ	Warren	QP	Portland	405200	750000
837	Lamar	WY	Park	QA	Lamar Canyon	445200	1101500
838	Cypress Creek Village Sites 11 and 12	KY	McLean	QA	Calhoun	373000	871500
839	Newt Kash Shelter	KY	Menifee	QA	Frenchburg	375200	833700
840	Gillenwater	KY	Barren	QA	Mammoth Cave	370700	860000
841	Turner	KY	Barren	QC	Glasgow North	370000	855200
842	Tolu	KY	Crittendon	QA	Rosiclare	374500	833700
843	Sampson Spencer Shelter	KY	Wolfe	QA	Slade	374500	833700
844	George W. Spencer Shelter	KY	Wolfe	QA	Campton	373700	833000
845	Dillard Stamper Shelter #1	KY	Wolfe	QA	Campton	373700	833000
846	Green Gentry Shelter	KY	Wolfe	QA	Campton	373700	833000
847	Steven DeHart Shelter	KY	Powell	QA	Levee	375200	835200
848	Big Ash Cave	KY	Lee	QA	Cobb Hill	373000	834500
849	Little Ash Cave	KY	Lee	QA	Cobb Hill	373000	834500
850	Red-eye Hollow	KY	Lee	QA	Cobb Hill	373000	834500
851	McCleod Bluff	KY	Hickman	QA	Oakton	363700	890000
852	Chiggerville	KY	Ohio	QA	Paradise	371500	865200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
853	French	MS	Holmes	QP	Cruger	331500	900700
854	Elm Creek Local Fauna	OK	Beaver	QA	Floris	364500	1003700
855	Werner Mound	LA	Bossier	E	Bossier City	323430	934000
856	Dameron Rockshelter	KY	Johnson	E	Oil Springs	375027	825250
857	Sylvan Lake Rockshelter	NY	Dutchess	QA	Verbank	413700	733700
858	Rocky Point	NY	Ulster	QA	Kaaterskill	420700	740000
859	Roadside Rockshelter	NY	Ulster	QA	West Shokan	415200	741500
860	Claverack Rockshelter	NY	Columbia	QP	Claverack	420700	733700
861	Zimmerman Rockshelter	NY	Greene	QA	Hudson North	421500	734500
862	Bronck House Rockshelter	NY	Greene	QA	Hudson North	421500	734500
863	Black Rock	NY	Greene	QA	Hudson North	421500	734500
864	Tufano	NY	Greene	QA	Hudson North	421500	734500
865	Barren Island	NY	Albany	QA	Ravena	422200	734500
866	Dennis	NY	Albany	QA	Albany	423700	734500
867	Weinman	NY	Warren	QA	Lake George	432200	733700
868	24BL102	MT	Blaine	QA	Runyan Bench	480000	1090700
869	Herdegen's Birdtail Butte	MT	Blaine	QA	Scotty Butte	480700	1090700
870	Southwestern College Campus at Memphis	TN	Shelby	QA	Northwest Memphis	350700	900000
871	Johnson Cave	TN	Putnam	QP	Monterey Lake	360000	851500
872	Trimble	TN	Obion	QA	Trimble	360700	890700
873	The Lost Sea	TN	Monroe	QC	Rafter	352200	840700
874	Kyle's Quarry Local Fauna	TN	Monroe	QC	Rafter	352200	840700
875	Darks Mill Local Fauna	TN	Maury	QC	Goodwin	353700	870000
876	Rogersville	TN	Hawkins	QP	Camelot	362200	830000
877	Sinking Cove Cave	TN	Franklin	QP	Sinking Cove	350000	855200
878	Jewel Cave	TN	Dickson	QA	Ruskin	360700	890700
879	Cove Hollow Cave	TN	DeKalb	QA	Center Hill Dam	360000	854500
880	Hicks Farm	TN	Davidson	QA	Bellevue	360000	865200
881	Big Pigeon River	TN	Cocke	QA	Newport	355200	830700
882	Vanatta	NY	Cattaraugus	QP	Salamanca	420700	783700
883	Hardwick Farms	TN	Bradley	QA	McDonald	350000	845200
884	Craig Quarry Local Fauna	TN	Blount	QA	Louisville	354500	840000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
885	Back Creek Cave #2	VA	Bath	E	Mountain Grove	380400	795330
886	5LP110	CO	La Plata	QP	Loma Linda	370700	1074500
887	5LP111	CO	La Plata	QP	Loma Linda	370700	1074500
888	Shelburne Pond Ewing Site	VT	Chittenden	QA	Burlington	442200	730700
889	Merrell	MT	Beaverhead	QP	Lima Dam	443700	1121500
890	Frankstown Cave	PA	Blair	QA	Frankstown	402200	781500
891	Greenville <i>Ursus</i>	MI	Kent	QA	Evans	430700	852200
892	Virginia Caverns	VA	Rockingham	QA	Timberville	383700	784500
893	Ruffner's Cave #2	VA	Page	QC	Hamburg	383700	783000
894	Metomkin	VA	Accomack	QC	Pungoteague	374500	754500
895	Hot Run	VA	Frederick	E	Stephenson	391422	780620
896	Glade Cave	VA	Augusta	QC	Churchville	380700	790700
897	Deep Creek Pit	VA	Norfolk	E	Norfolk South	364600	762200
898	Crab Orchard Cave	VA	Tazewell	QC	Tazewell North	370700	813000
899	Bill Neff Cave	VA	Rockingham	QA	Harrisonburg	382200	784500
900	Gardner's Cave	VA	Wythe	QP	Wytheville	365200	810000
901	Rohr Rock Shelter	WV	Monongalia	QA	Osage	393700	800000
902	Dixon Rockshelter	WV	Preston	QC	Valley Point	393000	793700
903	Waterloo Mastodon	IN	DeKalb	QP	Waterloo	412200	850000
904	Goodland <i>Platygonus</i>	KS	Sherman	QA	Goodland	391500	1013700
905	Hickman	KY	Fulton	QP	Hickman	363000	890700
906	Reading <i>Platygonus</i>	OH	Hamilton	QA	Greenhills	391500	843000
907	Spirit Pond Shellheap	ME	Cumberland	QA	Phillipsburg	434500	694500
908	J.W. Copes	LA	Madison	QC	Tendal	322200	911500
909	Ivory Pond	MA	Berkshire	QA	Great Barrington	420700	731500
910	Hendrickson	NY	Ulster	E	Kingston East	415522	735812
911	Riverhaven #2	NY	Niagara	QA	Niagara Falls	430000	790000
912	Cadwalader	NJ	Cumberland	QA	Dividing Creek	391500	750000
913	Ten Mile River Rockshelter	NY	Sullivan	QA	Narrowsburg	413000	750000
914	Hardin Village	KY	Greenup	QA	Portsmouth	372200	881500
915	Boschert	MO	St. Charles	QA	Winfield	385200	903700
916	Fay Tolton	SD	Stanley	QA	No Heart Creek	445200	1003700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
917	Callahan-Thompson	MO	Mississippi	QP	Bayouville	363700	891500
918	Crosno	MO	Mississippi	QA	Wyatt	365200	890700
919	Hess	MO	Mississippi	QP	Bayouville	363700	891500
920	Haystack Rockshelter B	KY	Powell	QA	Stanton	374500	834500
921	Bruly St. Martin	LA	St. Martin	QA	Napoleonville SW	294500	910700
922	Lab Woofie	IL	St. Clair	QA	Cahokia	383000	900700
923	Boston Ledges Shelter A	OH	Summit	QP	Peninsula	410700	813000
924	Boston Ledges Shelter B	OH	Summit	QP	Peninsula	410700	813000
925	Boaz Mastodon	WI	Richland	QA	Boaz	431500	903000
926	Kimberlin	MO	Crawford	QP	Sullivan	380700	910700
927	Brigham	ME	Piscataquis	E	Milo South	451406	685747
928	Rosenkrans	NJ	Sussex	E	Flatbrookville	410600	745900
929	Spirit Lake	AR	Lafayette	QA	Garland	331500	933700
930	Powell Canal	AR	Chicot	QA	Eminence	331000	910700
931	Mangrum	AR	Craighead	QA	Marked Tree	353000	902200
932	Cedar Grove	AR	Lafayette	QA	Garland	331500	933700
933	Roland	AR	Arkansas	QA	Henrico SW	340000	910700
934	Burris	AR	Craighead	QP	Sedgewick	354500	905200
935	Anderson	TN	Williamson	QA	Leiper's Fork	355200	865200
936	Mound 40LK3	TN	Lake	QA	Tiptonville	362200	892200
937	Zebree	AR	Mississippi	E	Manila	355904	900753
938	Wynnewood State Historical Site	TN	Summer	QA	Fountainhead	363000	862200
939	Citico	TN	Monroe	QA	Vonore	353000	840700
940	Parks	TN	Coffee	QA	Normandy Lake	352200	860700
941	Sam Houston Schoolhouse	TN	Blount	QA	Maryville	354500	835200
942	Chapman	TN	Jackson	QA	Granville	361500	854500
943	McFarland	TN	Coffee	QA	Normandy Lake	352200	860700
944	Clifton Place Privy	TN	Maury	QA	Columbia	353000	870000
945	40LD207	TN	Loudon	E	Lenoir City	354548	841947
946	Kimberly-Clark	TN	Loudon	E	Lenoir City	354608	841955
947	Standridge	AR	Montgomery	QA	Glenwood	341500	933000
948	Alexander	AR	Conway	QA	Solgochachia	351500	923700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
949	Arkansas Post National Memorial	AR	Arkansas	QP	Arkansas Post	340000	911500
950	Albertson	AR	Benton	QA	Colcord NE	362200	943000
951	Bangs Slough	AR	Calhoun	QA	Smackover	331500	923700
952	Ink Bayou	AR	Pulaski	QA	McAlmont	344500	920700
953	Nightfire Island	CA	Siskiyou	QA	Sheepy Lake	415200	1214500
954	Oatville Sand Pit	KS	Sedgwick	QP	Wichita West	373700	972200
955	Superior Sand Co.	KS	Sedgwick	QP	Wichita West	373700	972200
956	Globe Construction Co.	KS	Sedgwick	QP	Wichita West	373700	972200
957	Associated Material and Supply Co. Sandpit	KS	Sedgwick	QP	Maize	374500	972200
958	Cedar Creek Cave	TN	Greene	QA	Cedar Creek	360000	825200
959	Ft. Randall Historic Site	SD	Gregory	QP	Ft. Randall Dam	430000	983000
960	Fairview Beach	VA	King George	QC	King George	381500	770700
961	Whitesburg Local Fauna	TN	Hamblen	QA	Russellville	361500	830700
962	Cedar Hill Cave	VA	Rockingham	QC	Singers Glen	383000	785200
963	Little Salt River Cave	TN	Franklin	QA	Pitcher Ridge	350000	860000
964	Blawnox	PA	Allegheny	QA	Braddock	402200	794500
965	Gillespie's Cliff Cave	VA	Tazewell	QC	Tazewell North	370700	813000
966	Holston Vista Cave	VA	Washington	QC	Hayters Gap	364500	815200
967	Rass Hole	VA	Highland	QC	Monterey	382200	781500
968	Shires Saltpeter Cave	VA	Craig	QC	Potts Creek	373000	800700
969	Will Farley's Cave	VA	Washington	QC	Hayters Gap	364500	815200
970	Winding Stairs Cave	VA	Scott	QC	Fort Blackmore	364500	823000
971	Cliff Cave #2 (Stratum B)	VA	Giles	E	Pearisburg	371846	803847
972	Eggleston Fissure	VA	Giles	E	Eggleston	371701	803648
973	Arcadia Cave #1 and #2	VA	Botetourt	QC	Salisbury	373000	794500
974	Pembroke Railroad Cave #2	VA	Giles	QC	Narrows	371500	804500
975	Pembroke Railroad Cave #1	VA	Giles	QC	Narrows	371500	804500
976	Klotz Quarry Cave #5	VA	Giles	QC	Narrows	371500	804500
977	Smythe County Unnamed Cave	VA	Smythe	QC	Marion	364500	813000
978	Clark County Cave	VA	Clark	QC	Stephenson	390700	780000
979	Toms Brook	VA	Shenandoah	QC	Edinburg	384500	783000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
980	Stratford Hall	VA	Westmoreland	QC	Stratford Hall	380700	764500
981	Spurey Cave	VA	Madison	QC	Madison	382200	781500
982	Skyline Caverns	VA	Warren	QC	Strasburg	385200	781500
983	DL-29	OK	Delaware	QC	Grove	363000	944500
984	Bluff Shelter	OK	Delaware	QC	Grove	363000	944500
985	DL-30	OK	Delaware	QC	Grove	363000	944500
986	Hill Creek	IL	Pike	QA	Milton	402200	900000
987	Dietz	WI	Dane	QA	Waunakee	430700	892200
988	Walker-Hooper	WI	Green Lake	QA	Randolph	433000	890000
989	Sister's Creek	IL	Fulton	QA	Saint David	402200	900000
990	Riverside	MI	Menominee	E	Markton	451500	874400
991	Rose II Rockshelter	WI	Vernon	QP	La Farge	433000	903700
992	Castle Rock Cave	WI	Grant	QP	Boscobel	430700	903700
993	Arnett Mound	IL	Fulton	QA	Duncan Mills	401500	900700
994	Millville	WI	Grant	E	Wauzeka	430200	905700
995	Indian Point	MI	Isle Royale	QC	Todd Harbor	480000	884500
996	Fosters	MI	Saginaw	QA	Bridgeport	431500	835200
997	Schmidt	MI	Saginaw	QA	Bridgeport	431500	835200
998	Kantzler	MI	Bay	QA	Bay City	433000	835200
999	Lalone	MI	Arenac	QP	Standish	435200	835200
1000	Stadlmeyer	MI	Saginaw	QA	Saginaw	432200	854500
1001	Gatecliff Shelter	NV	Nye	E	Wildcat Peak	390000	1164700
1002	Logan City Cemetery	UT	Cache	Q	Smithfield	414500	1114500
1003	Warner Gravel Pit	UT	Davis	QA	Bountiful Peak	405200	1114500
1004	Foss-Lewis Sand and Gravel	UT	Davis	Q	Salt Lake City North	404500	1115200
1005	White Hill Pit	UT	Davis	QA	Salt Lake City North	404500	1115200
1006	Monroc Gravel Pit	UT	Salt Lake	QA	Salt Lake City North	404500	1115200
1007	North Bench	UT	Salt Lake	QA	Fort Douglas	404500	1114500
1008	Hardman Gravel Pit	UT	Salt Lake	Q	Fort Douglas	404500	1114500
1009	University of Utah Medical Center	UT	Salt Lake	QA	Fort Douglas	404500	1114500
1010	Fort Douglas Military Reservation #1	UT	Salt Lake	QA	Fort Douglas	404500	1114500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1011	Fort Douglas Military Reservation # 2	UT	Salt Lake	QA	Fort Douglas	404500	1114500
1012	City Creek Canyon	UT	Salt Lake	E	Salt Lake City North	404015	1115300
1013	Downtown Salt Lake City	UT	Salt Lake	Q	Salt Lake City North	404500	1115200
1014	Ure Mammoth Locality	UT	Salt Lake	QA	Sugar House	403700	1114500
1015	Black Rock Canyon	UT	Salt Lake	QA	Farnsworth Peak	403700	1120700
1016	Southeast Salt Lake City	UT	Salt Lake	QA	Sugar House	403700	1114500
1017	Harper Sand and Gravel Pit	UT	Salt Lake	QA	Sugar House	403700	1114500
1018	Sorenson Construction Pit	UT	Salt Lake	QA	Salt Lake City South	403700	1115200
1019	Monroc Kearns Gravel Pit	UT	Salt Lake	Q	Magna	403700	1120000
1020	Sandy Mammoth Site	UT	Salt Lake	E	Midvale	403555	1115358
1021	Sandy, Utah	UT	Salt Lake	QA	Midvale	403000	1115200
1022	Merrico Gravel Pit	UT	Utah	QA	Jordan Narrows	402200	1115200
1023	Point-of-the-Mountain	UT	Utah	Q	Jordan Narrows	402200	1115200
1024	Pleasant Grove	UT	Utah	QA	Orem	401500	1113700
1025	Orem	UT	Utah	QA	Orem	401500	1113700
1026	Utah Lake	UT	Utah	QA	Saratoga Springs	401500	1115200
1027	Slate Canyon	UT	Utah	Q	Provo	400700	1113700
1028	Springville	UT	Utah	QA	Springville	400700	1113000
1029	Payson	UT	Utah	QA	Spanish Fork	400000	1113700
1030	Johnson Gravel Pit	UT	Utah	QA	West Mountain	400000	1114500
1031	Santaquin Pit	UT	Utah	QA	Santaquin	395200	1114500
1032	Tabernacle Crater	UT	Millard	QA	Meadow	385200	1122200
1033	Redmond	UT	Sanpete	QA	Redmond	390000	1114500
1034	Dirty Shame Rockshelter	OR	Malheur	E	Jordan Valley	422636	1172036
1035	Umatilla Mammoth Site	WA	Benton	QA	Prior Ranch	460000	1192200
1036	Berrian's Island	WA	Benton	QA	Prior Ranch	460000	1192200
1037	Jeppson	WA	Benton	E	Richland	461800	1192100
1038	Lind Coulee	WA	Grant	E	Wheeler NE	470900	1190000
1039	Manis Mastodon Site	WA	Clallam	QA	Sequim	480000	1230000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1040	Marmes Rockshelter	WA	Franklin	E	Starbuck West	463700	1181200
1041	Touchet Beds	WA	Benton	QA	Canoe Ridge	455200	1194500
1042	Tule Springs	NV	Clark	E	Tule Springs Park	361900	1151123
1043	Mormon Mountain Cave	NV	Lincoln	E	Lower Pahrnagat Lake SE	370000	1150000
1044	Amy's Shelter	NV	White Pine	E	Mt. Moriah	392000	1140500
1045	Silver Creek	UT	Summit	E	Park City West	404315	1113010
1046	Huntington Reservoir Sinkhole	UT	Sanpete	QA	Huntington Reservoir	393000	1111500
1047	Danger Cave	UT	Tooele	QA	Wendover	403700	1140000
1048	Hogup Cave	UT	Box Elder	QA	Tangent Peak	412200	1130700
1049	Kennewick Roadcut	WA	Benton	Q	Johnson Butte	460000	1190700
1050	45AD2	WA	Adams	QA	Ritzville SW	470000	1182200
1051	Prescott	WA	Walla Walla	QA	Prescott	461500	1181500
1052	45FE24	WA	Ferry	QA	Whitestone Rock	475200	1183000
1053	Ferry County Salvage Sites	WA	Ferry	QA	Boys	483700	1180700
1054	Cold Springs	OR	Umatilla	QA	Hat Rock	455200	1190700
1055	Bechan Cave	UT	Kane	QA	Stevens Canyon South	372200	1105200
1056	Stanton's Cave	AZ	Coconino	E	North Canyon Point	363000	1115000
1057	Mineral Hill Cave	NV	Elko	QA	Mineral Hill	400700	1160000
1058	Vulture Cave	AZ	Mohave	E	Columbine Falls	360600	1135600
1059	Muav Caves	AZ	Mohave	QA	Columbine Falls	360000	1135200
1060	Kachina Cave	NV	White Pine	QA	Mt. Moriah	391500	1140700
1061	Mercury Ridge	NV	Clark	QA	Mercury	363700	1155200
1062	Spotted Range	NV	Clark	QA	Mercury	363700	1155200
1063	Glendale	NV	Clark	QA	Overton	363000	1142200
1064	Fort Rock Cave	OR	Lake	QA	Fort Rock	431500	1210000
1065	Connley Cave No. 3	OR	Lake	QA	Fort Rock	431500	1210000
1066	Connley Cave No. 4	OR	Lake	QA	Fort Rock	431500	1210000
1067	Connley Cave No. 5	OR	Lake	QA	Fort Rock	431500	1210000
1068	Connley Cave No. 6	OR	Lake	QA	Fort Rock	431500	1210000
1069	Cowboy Cave	UT	Wayne	E	Head Spur	381904	1101208

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1070	Corn Creek Packrat Midden	NV	Clark	QA	Corn Creek Springs NW	362200	1152200
1071	Vulture Canyon Packrat Midden 1	AZ	Mohave	QA	Columbine Falls	360000	1135200
1072	Vulture Canyon Packrat Midden 4	AZ	Mohave	QA	Columbine Falls	360000	1135200
1073	Vulture Canyon Packrat Midden 12	AZ	Mohave	QA	Columbine Falls	360000	1135200
1074	Vulture Canyon Packrat Midden 14	AZ	Mohave	QA	Columbine Falls	360000	1135200
1075	Emery Falls Canyon	AZ	Mohave	QA	Snap Canyon West	360700	1135200
1076	Rampart Cave	AZ	Mohave	E	Columbine Falls	360600	1135600
1077	Natural Bridges National Monument	UT	San Juan	QA	Moss Back Butte	373000	1100000
1078	Phillips Pit	AZ	Navajo	QA	Winslow NW	350700	1103700
1079	Murray Springs	AZ	Cochise	E	Lewis Springs	313415	1101038
1080	Leikem	AZ	Cochise	QA	Bisbee	312200	1095200
1081	Naco	AZ	Cochise	QA	Bisbee	312200	1095200
1082	Lehner	AZ	Cochise	E	Stark	312000	1100300
1083	Escapule	AZ	Cochise	QA	Lewis Springs	313000	1100700
1084	Schaldack	AZ	Cochise	QA	Lewis Springs	313000	1100700
1085	Seff	AZ	Cochise	QA	Benson	315200	1101500
1086	Boquillas Station	AZ	Cochise	QA	Land	314500	1100700
1087	Lindsey Ranch	AZ	Cochise	QA	Lewis Springs	313000	1100700
1088	Mosan Wash	AZ	Cochise	QA	Lewis Springs	313000	1100700
1089	Hurley	AZ	Cochise	QA	Lewis Springs	313000	1100700
1090	Hereford Dairy Ranch	AZ	Cochise	QA	Hereford	312200	1100000
1091	Hargis	AZ	Cochise	QA	Nicksville	312200	1100700
1092	Portell Conduit	AZ	Cochise	QA	Lewis Springs	313000	1100700
1093	Cerros Negros	AZ	Pinal	QA	Peppersauce Wash	323000	1103000
1094	Fossil Lake	OR	Lake	QA	Fossil Lake	431500	1202200
1095	Morgan County Badger Burrow	UT	Morgan	QA	Morgan	410000	1113700
1096	Granite Canyon	UT	Juab	E	Trout Creek	394000	1135000
1097	Garrison	UT	Millard	E	Garrison	385700	1140300

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1098	Tucson Mountains Midden 1	AZ	Pima	E	Avra	321900	1111200
1099	Wolcott Peak Midden 2	AZ	Pima	E	Silver Bell East	322700	1112800
1100	Wolcott Peak Midden 5	AZ	Pima	E	Silver Bell East	322700	1112800
1101	Castle Mountain Midden 1B	AZ	Pima	QA	Ventana	322200	1120700
1102	Castle Mountain Midden 2C	AZ	Pima	QA	Ventana	322200	1120700
1103	Castle Mountain Midden 3A	AZ	Pima	QA	Ventana	322200	1120700
1104	Castle Mountain Midden 3D	AZ	Pima	QA	Ventana	322200	1120700
1105	Tinajas Altas Mountains Midden	AZ	Yuma	QA	Tinajas Altas	321500	1140000
1106	Wellton Hills Midden 1	AZ	Yuma	QA	Wellton Hills	323000	1140700
1107	Wellton Hills Midden 2	AZ	Yuma	QA	Wellton Hills	323000	1140700
1108	Wellton Hills Midden 5	AZ	Yuma	QA	Wellton Hills	323000	1140700
1109	Picacho Peak Midden 1	CA	Imperial	QA	Picacho Peak	325200	1143700
1110	Picacho Peak Midden 4	CA	Imperial	QA	Picacho Peak	325200	1143700
1111	Picacho Peak Midden 6	CA	Imperial	QA	Picacho Peak	325200	1143700
1112	Burro Canyon Midden 1	AZ	Yuma	E	Livingston Hills	332400	1140100
1113	Brass Cap Point Midden 1	AZ	Yuma	QA	Livingston Hills	332200	1140000
1114	Plumosa Mountains Midden 1	AZ	La Paz	QA	Plomosa Pass	333700	1140000
1115	New Water Mountains Midden 2	AZ	Yuma	E	Owl Head	333600	1135500
1116	New Water Mountains Midden 4	AZ	Yuma	E	Owl Head	333600	1135500
1117	New Water Mountains Midden 7	AZ	Yuma	E	Owl Head	333600	1135500
1118	Artillery Mountains Midden 1	AZ	Mohave	E	Artillery Peak	342000	1133500
1119	Artillery Mountains Midden 2	AZ	Mohave	E	Artillery Peak	342000	1133500
1120	Artillery Mountains Midden 3	AZ	Mohave	E	Palmenta Ranch	342300	1132800
1121	Kedtail Peak Midden 3	CA	San Bernadino	E	Whipple Mountains SW	341600	1142500
1122	Redtail Peak Midden 8	CA	San Bernadino	E	Whipple Mountains SW	341600	1142500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1123	Redtail Peak Midden 10	CA	San Bernadino	E	Whipple Mountains SW	341600	1142500
1124	Redtail Peak Midden 11	CA	San Bernadino	E	Whipple Mountains SW	341600	1142500
1125	Whipple Mountains Midden 1	CA	San Bernadino	E	Whipple Mountains SW	341600	1142500
1126	Whipple Mountains Midden 2	CA	San Bernadino	E	Whipple Mountains SW	341600	1142500
1127	Falling Arches Packrat Midden	CA	San Bernadino	QA	Whipple Wash	341500	1141500
1128	Tunnel Ridge Midden 2	CA	San Bernadino	QA	Whipple Wash	341500	1141500
1129	Tunnel Ridge Midden 5	CA	San Bernadino	QA	Whipple Wash	341500	1141500
1130	Ajo Loop Midden 1A	AZ	Pima	QA	Lukeville	315200	1124500
1131	Ajo Loop Midden 3A	AZ	Pima	QA	Lukeville	315200	1124500
1132	Ajo Loop Midden 4	AZ	Pima	QA	Lukeville	315200	1124500
1133	Ajo Loop Midden 6C	AZ	Pima	QA	Lukeville	315200	1124500
1134	Cholla Pass Midden 2	AZ	Pima	QA	Lukeville	315200	1124500
1135	Twin Peaks Midden 2	AZ	Pima	QA	Lukeville	315200	1124500
1136	Twin Peaks Midden 6	AZ	Pima	QA	Lukeville	315200	1124500
1137	Twin Peaks Midden 7	AZ	Pima	QA	Lukeville	315200	1124500
1138	Alamo Canyon Midden 1B	AZ	Pima	QA	Tillotson Peak	320000	1124500
1139	Alamo Canyon Midden 1U	AZ	Pima	QA	Tillotson Peak	320000	1124500
1140	Alamo Canyon Midden 2X	AZ	Pima	QA	Tillotson Peak	320000	1124500
1141	Alamo Canyon Midden 3	AZ	Pima	QA	Tillotson Peak	320000	1124500
1142	Montezuma's Head Midden 1B	AZ	Pima	E	Mount Ajo	320700	1124200
1143	Montezuma's Head Midden 1C	AZ	Pima	E	Mount Ajo	320700	1124200
1144	Montezuma's Head Midden 1D	AZ	Pima	E	Mount Ajo	320700	1124200
1145	Ventana Cave	AZ	Pima	E	Window Mountain	322000	1121400
1146	Timothy's Village	WA	Asotin	QA	Silcott Island	462200	1170700
1147	45AS80	WA	Asotin	QA	Silcott Island	462200	1170700
1148	Pig Farm	WA	Asotin	QA	Silcott Island	462200	1170700
1149	Flaherty Mesa No. 1	NV	Clark	E	Gass Peak	362900	1151500
1150	Last Supper Cave	NV	Humboldt	QA	Alkali Peak	413700	1190700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1151	Hanging Rock Shelter	NV	Washoe	QA	Nut Mountain	413000	1192200
1152	Kings Canyon	CA	Tulare	E	Lodgepole	364800	1184800
1153	Sudden Shelter	UT	Sevier	E	Old Woman Plateau	384545	1112700
1154	Deadman Cave	AZ	Pima	QA	Mount Lemmon	322200	1104500
1155	Papago Springs Cave	AZ	Santa Cruz	QA	Sonoita	313700	1103700
1156	Wizards Beach	NV	Washoe	QA	The Needle Rocks	400700	1193700
1157	Shonto	AZ	Navajo	E	Shonto	363348	1103845
1158	Point of Pines	AZ	Graham	QA	Point of Pines East	331500	1093700
1159	Thorne Cave	UT	Uintah	E	Jensen	402200	1091600
1160	Gypsum Cave	NV	Clark	E	Frenchman Mountain	361200	1145200
1161	Flaherty Shelter	NV	Clark	E	Gass Peak	362900	1151400
1162	Aden Fumarole	NM	Dona Ana	QA	Aden Crater	320000	1070000
1163	Burnet Cave	NM	Eddy	QA	Texas Hill	322200	1044500
1164	Dry Cave	NM	Eddy	E	Carnero Peak	322225	1042855
1165	Guadalupe Ruin	NM	Sandoval	QA	Guadalupe	353000	1070700
1166	Howell's Ridge Cave	NM	Grant	E	Playas Peak	315500	1083000
1167	Isleta Cave No. 1	NM	Bernalillo	Q	Wind Mesa	345200	1064500
1168	Isleta Cave No. 2	NM	Bernalillo	Q	Wind Mesa	345200	1064500
1169	McCollum Ranch	NM	Roosevelt	E	Oasis State Park	341600	1031630
1170	Marble Canyon Midden 1A	NM	Otero	E	Alamogordo South	325000	1055500
1171	Marble Canyon Midden 1C	NM	Otero	E	Alamogordo South	325000	1055500
1172	Marble Canyon Midden 4A	NM	Otero	E	Alamogordo South	325000	1055500
1173	U-Bar Cave	NM	Hidalgo	E	San Luis Pass	312200	1083700
1174	Ezra's Retreat	NV	Humboldt	QA	Whiskey Springs	413000	1170700
1175	Nichols	AZ	Maricopa	QA	Sunny Slope	333000	1120000
1176	Granite Point	WA	Whitman	QA	Almota	463700	1172200
1177	La Grande	OR	Union	E	Lagrande	451737	1180345
1178	Ksunku	WA	Ferry	QA	Boyd's	483700	1180700
1179	The Dalles	OR	Wasco	QA	The Dalles South	453000	1210700
1180	Mescal Cave	CA	San Bernardino	QA	Mescal Range	352200	1153000
1181	Tucannon	WA	Columbia	QA	Starbuck East	463000	1180000
1182	45WT2	WA	Whitman	QA	Palouse Falls	463700	1180700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1183	45WT7	WA	Whitman	QA	La Crosse East	464500	1174500
1184	Ash Cave	WA	Walla Walla	QA	Lower Monumental Dam	463000	1183000
1185	Point St. George	CA	Del Norte	Q	Crescent City	414500	1240700
1186	LA 12072	NM	Rio Arriba	QA	Llaves	362200	1064500
1187	Awatovi	AZ	Navajo	QA	Sun Altar	354500	1101500
1188	Antelope House	AZ	Apache	QA	Chinle	360700	1093000
1189	Shonitkwu	WA	Ferry	QA	Kettle Falls	483000	1180000
1190	Owl Cave 1	NV	White Pine	E	Garrison	385400	1140300
1191	Owl Cave 2	NV	White Pine	E	Garrison	385400	1140300
1192	Sandia Cave	NM	Sandoval	E	Sandia Park	351530	1062400
1193	Astor Pass	NV	Washoe	QA	Astor Pass	400700	1194500
1194	Chuar Valley Midden 8b	AZ	Coconino	E	Walhalla Plateau	361100	1115500
1195	Chuar Valley Midden 8c1	AZ	Coconino	E	Walhalla Plateau	361100	1115500
1196	Chuar Valley Midden 9	AZ	Coconino	E	Walhalla Plateau	361100	1115500
1197	Nankoweup Canyon Midden 7a	AZ	Coconino	E	Nankoweap Mesa	361500	1115700
1198	Nankoweup Canyon Midden 9b	AZ	Coconino	E	Nankoweap Mesa	361500	1115700
1199	Nankoweup Canyon Midden 9c	AZ	Coconino	E	Nankoweap Mesa	361500	1115700
1200	Nankoweup Canyon Midden 9d	AZ	Coconino	E	Nankoweap Mesa	361500	1115700
1201	Bass Canyon Midden 2	AZ	Coconino	QA	Phantom Ranch	360000	1120000
1202	Bass Canyon Midden 3a	AZ	Coconino	QA	Phantom Ranch	360000	1120000
1203	Hance Canyon Midden 3	AZ	Coconino	E	Cape Royal	360000	1115700
1204	Tse'an Bida Cave Midden 1C	AZ	Coconino	E	Cape Royal	360000	1115700
1205	Tse'an Bida Cave Midden 3	AZ	Coconino	E	Cape Royal	360000	1115700
1206	Tse'an Bida Cave Midden 4	AZ	Coconino	E	Cape Royal	360000	1115700
1207	Tse'an Bida Cave Midden 6b	AZ	Coconino	E	Tuba City SE	360000	1110000
1208	Umpqua/Eden	OR	Douglas	QP	Winchester Bay	433700	1240700
1209	Seal Rock	OR	Lincoln	QA	Newport South	443000	1240000
1210	Fish Bone Cave	NV	Pershing	E	Tohakum Peak NE	401208	1191645
1211	Black Mesa, D:13:1	AZ	Coconino	QA	John Daw Mesa	361500	1104500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1212	Black Mesa, D:9:2	AZ	Coconino	QA	John Daw Mesa	361500	1104500
1213	Black Mesa, D:10:1	AZ	Navajo	QA	Kydestea Spring	361500	1103700
1214	Black Mesa, D:13:3	AZ	Coconino	QA	John Daw Mesa	361500	1104500
1215	Black Mesa, D:9:1	AZ	Coconino	QA	John Daw Mesa	361500	1104500
1216	Whitewater Draw	AZ	Cochise	Q	Double Adobe	312200	1093700
1217	Whale Cove	OR	Lincoln	QA	Depoe Bay	444500	1240000
1218	Ridge Village North	NV	Lander	QA	Grass Valley Ranch	393700	1164500
1219	Ridge Village South	NV	Lander	QA	Grass Valley Ranch	393700	1164500
1220	Dead Pile Village	NV	Lander	QA	Grass Valley Ranch	393700	1164500
1221	Pottery Hill 1	NV	Lander	QA	Grass Valley Ranch	393700	1164500
1222	Pottery Hill 2	NV	Lander	QA	Grass Valley Ranch	393700	1164500
1223	Grass Valley Tom's	NV	Lander	QA	Grass Valley Ranch	393700	1164500
1224	Bloom Mound	NM	Chaves	QA	Hondo Reservoir	331500	1043700
1225	Penasco	NM	Chaves	QA	Elk	325200	1051500
1226	Bonnell	NM	Lincoln	QA	Lincoln	322200	1052200
1227	Hiner	NM	Lincoln	QA	Gallo Spring Canyon	340700	1052200
1228	Phillips	NM	Lincoln	QA	White Oaks South	333700	1053700
1229	Block Lookout	NM	Lincoln	QA	Encinosa	333700	1052200
1230	Tse'an Bida Cave	AZ	Coconino	E	Cape Royal	360000	1115700
1231	Ozette	WA	Clallam	E	Ozette	481000	1244400
1232	South Vancouver Island	BC		E		483354	1232505
1233	Aspen Shelter	UT	Sevier	QA	Accord Lakes	385200	1112200
1234	Milnesand	NM	Roosevelt	Q	Milnesand	333700	1031500
1235	Arroyo Hondo Pueblo	NM	Santa Fe	QA	Seton Village	353000	1055200
1236	Charlie Lake Cave	BC		E		561635	1205615
1237	Chilliwack	BC		E		490536	1215700
1238	Bailey Pit	BC		E		490636	1205530
1239	Lovelock Cave	NV	Churchill	E	Lovelock Indian Caves	395742	1183325
1240	Armijo Springs Site 5939	NM	Catron	QA	Largo Mesa	340700	1083000
1241	Apache Creek Site 8887	NM	Catron	QA	Squirrel Springs Canyon	334500	1083000
1242	Apache Creek Site 8888	NM	Catron	QA	Squirrel Springs Canyon	334500	1083000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1243	Apache Creek Site 8891	NM	Catron	QA	Squirrel Springs Canyon	334500	1083000
1244	Castle Rock	NM	Catron	QA	Armstrong Canyon	341500	1083000
1245	Whiskey Creek Site 4986	NM	Catron	Q	Queen's Head	335200	1083700
1246	Whiskey Creek Site 4987	NM	Catron	Q	Queen's Head	335200	1083700
1247	Whiskey Creek Site 4988	NM	Catron	Q	Queen's Head	335200	1083700
1248	Whiskey Creek Site 4989	NM	Catron	Q	Queen's Head	335200	1083700
1249	Tularosa Cave	NM	Catron	Q	Aragon	335200	1083000
1250	James Creek Shelter	NV	Eureka	QA	Welches Canyon	404500	1161500
1251	Snaketown	AZ	Pinal	E	Gila Mountain NW	331102	1115503
1252	Folsom	NM	Union	QA	Folsom	364500	1035200
1253	Black Mesa D:7:0151	AZ	Navajo	QA	Long House Valley	363000	1102200
1254	Black Mesa D:7:0236	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1255	Black Mesa D:7:0239	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1256	Black Mesa D:7:0310	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1257	Black Mesa D:7:0713	AZ	Navajo	QA	Long House Valley	363000	1102200
1258	Black Mesa D:7:1108	AZ	Navajo	QA	Long House Valley	363000	1102200
1259	Black Mesa D:7:3013	AZ	Navajo	QA	Long House Valley	363000	1102200
1260	Black Mesa D:7:3107	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1261	Black Mesa D:7:3141	AZ	Navajo	QA	Long House Valley	363000	1102200
1262	Black Mesa D:11:0244	AZ	Navajo	QA	Yucca Hill	362200	1101500
1263	Black Mesa D:11:0449	AZ	Navajo	QA	Yucca Hill	362200	1101500
1264	Black Mesa D:11:0410	AZ	Navajo	QA	Yucca Hill	362200	1101500
1265	Black Mesa D:11:2063	AZ	Navajo	QA	Great Springs	362200	1102200
1266	Black Mesa D:11:2127	AZ	Navajo	QA	Great Springs	362200	1102200
1267	Black Mesa D:11:3131	AZ	Navajo	QA	Great Springs	362200	1102200
1268	Black Mesa D:11:3133	AZ	Navajo	QA	Great Springs	362200	1102200
1269	Black Mesa D:11:3135	AZ	Navajo	QA	Great Springs	362200	1102200
1270	Black Mesa D:7:3038	AZ	Navajo	QA	Long House Valley	363000	1102200
1271	Black Mesa D:7:3194	AZ	Navajo	QA	Long House Valley	363000	1102200
1272	Black Mesa D:7:0023	AZ	Navajo	QA	Long House Valley	363000	1102200
1273	Black Mesa D:7:0214	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1274	Black Mesa D:7:0216	AZ	Navajo	QA	Marsh Pass SE	363000	1101500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1275	Black Mesa D:7:0263	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1276	Black Mesa D:7:2064	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1277	Black Mesa D:11:0073	AZ	Navajo	QA	Great Springs	362200	1102200
1278	Black Mesa D:11:0320	AZ	Navajo	QA	Yucca Hill	362200	1101500
1279	Black Mesa D:11:0338	AZ	Navajo	QA	Yucca Hill	362200	1101500
1280	Black Mesa D:11:0381	AZ	Navajo	QA	Yucca Hill	362200	1101500
1281	Black Mesa D:11:1158	AZ	Navajo	QA	Yucca Hill	362200	1101500
1282	Black Mesa D:11:2023	AZ	Navajo	QA	Great Springs	362200	1102200
1283	Black Mesa D:11:2025	AZ	Navajo	QA	Great Springs	362200	1102200
1284	Black Mesa D:11:2027	AZ	Navajo	QA	Great Springs	362200	1102200
1285	Black Mesa D:11:2030	AZ	Navajo	QA	Great Springs	362200	1102200
1286	Black Mesa D:11:2038	AZ	Navajo	QA	Great Springs	362200	1102200
1287	Black Mesa D:11:2062	AZ	Navajo	QA	Great Springs	362200	1102200
1288	Black Mesa D:7:0019	AZ	Navajo	QA	Long House Valley	363000	1102200
1289	Black Mesa D:7:0109	AZ	Navajo	QA	Long House Valley	363000	1102200
1290	Black Mesa D:7:0222	AZ	Navajo	QA	Marsh Pass SE	363000	1101500
1291	Black Mesa D:7:0704	AZ	Navajo	QA	Long House Valley	363000	1102200
1292	Black Mesa D:7:0719	AZ	Navajo	QA	Long House Valley	363000	1102200
1293	Black Mesa D:7:0725	AZ	Navajo	QA	Long House Valley	363000	1102200
1294	Black Mesa D:7:1135	AZ	Navajo	QA	Long House Valley	363000	1102200
1295	Black Mesa D:7:2001	AZ	Navajo	QA	Long House Valley	363000	1102200
1296	Black Mesa D:7:2092	AZ	Navajo	QA	Long House Valley	363000	1102200
1297	Black Mesa D:11:0215	AZ	Navajo	QA	Yucca Hill	362200	1101500
1298	Black Mesa D:11:0275	AZ	Navajo	QA	Yucca Hill	362200	1101500
1299	Black Mesa D:11:0316	AZ	Navajo	QA	Yucca Hill	362200	1101500
1300	Black Mesa D:11:0352	AZ	Navajo	QA	Yucca Hill	362200	1101500
1301	Black Mesa D:11:0426	AZ	Navajo	QA	Yucca Hill	362200	1101500
1302	Black Mesa D:11:2001	AZ	Navajo	QA	Great Springs	362200	1102200
1303	New Cave	NM	Eddy	QA	Carlsbad Caverns	320700	1042200
1304	Shelter Cave	NM	Dona Ana	QP	Bishop Cap	320700	1063000
1305	Grasshopper Pueblo	AZ	Navajo	E	Spotted Mountain	340500	1104000
1306	Arches Mammoth Site	UT	Grand	QA	Gold Bar Canyon	383000	1093700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1307	Lucy	NM	Torrance	QA	Willard	343000	1060000
1308	Albuquerque	NM	Bernalillo	QA	Albuquerque East	350000	1063000
1309	Commanche Springs	NM	Valencia	QA	Tome	343700	1063700
1310	Stone Lagoon	CA	Humboldt	QA	Rodger's Peak	410700	1240000
1311	Patrick's Point	CA	Humboldt	QP	Trinidad	410200	1240700
1312	Gunther Island	CA	Humboldt	QP	Eureka	404500	1240700
1313	Mattole River	CA	Humboldt	QP	Petrolia	401500	1241500
1314	Spanish Flat	CA	Humboldt	QA	Petrolia	401500	1241500
1315	Shelter Cove	CA	Humboldt	QP	Shelter Cove	400000	1240000
1316	Archawat	WA	Clallam	E	Cape Flattery	482130	1244220
1317	Tatoosh	WA	Clallam	E	Cape Flattery	482330	1244400
1318	Sooes	WA	Clallam	E	Makah Bay	481700	1243900
1319	Warmhouse	WA	Clallam	E	Cape Flattery	482330	1244000
1320	Neah Bay	WA	Clallam	E	Seku River	482215	1242730
1321	LA 12054	NM	Rio Arriba	QP	French Mesa	361500	1064500
1322	LA 12055	NM	Rio Arriba	QP	French Mesa	361500	1064500
1323	LA 12056	NM	Rio Arriba	QP	French Mesa	361500	1064500
1324	LA 12059	NM	Rio Arriba	QA	Llaves	362200	1064500
1325	LA 12062	NM	Rio Arriba	QA	Pounds Mesa	363000	1064500
1326	LA 12063	NM	Rio Arriba	QA	Pounds Mesa	363000	1064500
1327	LA 12066	NM	Rio Arriba	QA	Llaves	362200	1064500
1328	LA 12069	NM	Rio Arriba	QA	Pounds Mesa	363000	1064500
1329	LA 12070	NM	Rio Arriba	QA	Llaves	362200	1064500
1330	LA 12071	NM	Rio Arriba	QA	Llaves	362200	1064500
1331	LA 12073	NM	Rio Arriba	QA	Llaves	362200	1064500
1332	Slick Rock Village	CA	Tulare	QA	Kaweah	362200	1185200
1333	Costeau Pit	CA	Orange	QA	El Toro	333700	1173700
1334	La Mirada	CA	Los Angeles	QP	La Habra	335200	1175200
1335	Rancho La Brea	CA	Los Angeles	E	Hollywood	340345	1182125
1336	Hermit's Cave	NM	Eddy	QA	Red Bluff Draw	321500	1043700
1337	Conkling Cavern	NM	Dona Ana	QA	Organ Peak	321500	1063000
1338	Dark Canyon Cave	NM	Eddy	QA	Bandanna Point	321500	1043000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1339	Mockingbird Gap	NM	Socorro	QA	Mockingbird Gap	333000	1062200
1340	Big Bear	NM	Roosevelt	QP	Portair	342200	1031500
1341	San Jon	NM	Quay	QA	San Jon	350000	1031500
1342	Martinez Gravel Pit	NM	Sandoval	QP	Bernalillo	351500	1063000
1343	The Khulo	NM	Dona Ana	QP	Aden Crater	320000	1070000
1344	Anthony Cave	NM	Dona Ana	QP	Anthony	320000	1063000
1345	Baldy Peak Cave	NM	Luna	QC	Bowlin Ranch	320700	1074500
1346	CA-Ven-39	CA	Ventura	QA	Simi Valley East	341500	1183700
1347	Mulholland	CA	Los Angeles	QA	Hollywood	340000	1181500
1348	Medea Creek	CA	Los Angeles	QC	Acton	342200	1180700
1349	Big Tujunga	CA	Los Angeles	QC	Acton	342200	1180700
1350	CA-Ven-294	CA	Ventura	QA	Simi Valley West	341500	1184500
1351	Muwu	CA	Ventura	QP	Point Mugu	340200	1190000
1352	CA-Men-2138	CA	Mendocino	QA	Redwood Valley	391500	1230700
1353	Newark Cave	NV	White Pine	QA	Cold Creek Ranch	394500	1153700
1354	Newberry Cave	CA	San Bernardino	QP	Newberry Spring	344500	1163700
1355	Antelope Cave	CA	San Bernardino	QA	Mescal Range	352200	1153000
1356	Kokoweef Cave	CA	San Bernardino	E	Joshua	352500	1153000
1357	Mitchell Caverns	CA	San Bernardino	QA	Fountain Peak	345200	1153000
1358	Schuiling Cave	CA	San Bernardino	QP	Newberry Spring	344500	1163700
1359	Lake Manix	CA	San Bernardino	QP	Manix	345200	1163000
1360	Solar Energy Generating Station II	CA	San Bernardino	E	Yermo	345300	1165000
1361	Solar One	CA	San Bernardino	E	Yermo	345300	1165000
1362	Luz Solar Trough	CA	San Bernardino	E	Yermo	345300	1165000
1363	Daggett Calico Lakes	CA	San Bernardino	E	Yermo	345300	1165000
1364	Daggett Solid Waste Locality	CA	San Bernardino	E	Yermo	345300	1165000
1365	Mercer Cave	CA	Calaveras	E	Murphys	380906	1202836
1366	Hawver Cave	CA	El Dorado	QP	Greenwood	385200	1205200
1367	Lone Tree Point	CA	Contra Costa	E	Mare Island	380208	1221624
1368	Tranquility	CA	Fresno	E	Jamesan	364104	1201337
1369	Panamint Crater	CA	Inyo	QA	Panamint Springs	361500	1172200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1370	China Lake Locality 3569	CA	Kern	E	Pearsonville	354500	1174500
1371	China Lake Locality 7262	CA	San Bernardino	QP	Lone Butte	353700	1173000
1372	China Lake Locality 7013	CA	Kern	QP	Ridgecrest North	353700	1173700
1373	Maricopa	CA	Kern	QA	Maricopa	350000	1192200
1374	McKittrick	CA	Kern	E	West Elk Hills	351900	1193700
1375	Elk Creek Lake Site 35JA27A	OR	Jackson	QP	McLeod	423700	1223700
1376	Elk Creek Lake Site 35JA27B	OR	Jackson	QP	McLeod	423700	1223700
1377	Elk Creek Lake Site 35JA59	OR	Jackson	QP	McLeod	423700	1223700
1378	Elk Creek Lake Site 35JA100	OR	Jackson	QP	McLeod	423700	1223700
1379	Amedee	CA	Lassen	E	Spencer Creek	401730	1200730
1380	Homestake Mine	CA	Lassen	E	Diamond Mountain	402230	1203930
1381	Long Valley 1	CA	Lassen	E	Diamond Mountain	402230	1203930
1382	Dudley Ridge	CA	Kings	E	Dudley Ridge	355631	1194658
1383	Carter Ranch	NM	Union	QA	Sedan	360700	1030700
1384	Leighton Ranch	NM	Union	QP	Wedding Cake Butte	365200	1030700
1385	Agua Amarga Canyon	CA	Los Angeles	QA	Torrance	334500	1181500
1386	Ballona Creek Wash	CA	Los Angeles	QA	South Gate	335200	1180700
1387	Chandler Sand Pit	CA	Los Angeles	QP	Redondo Beach	334400	1182200
1388	Naval Fuel Reserve Quarry	CA	Los Angeles	QP	Long Beach	334200	1180700
1389	Naval Housing Unit	CA	Los Angeles	QP	Long Beach	334200	1180700
1390	San Pedro Lumber Company	CA	Los Angeles	QA	Torrance	334500	1181500
1391	Zuma Creek	CA	Los Angeles	QA	Torrance	334500	1181500
1392	Bonita Creek	CA	Orange	QA	Newport Beach	333500	1175200
1393	Newport Bay Mesa	CA	Orange	QP	Newport Beach	333500	1175200
1394	Teichart Gravel Pit	CA	Sacramento	E	Carmichael	383206	1212213
1395	Quien Sabe Cave	CA	San Bernardino	E	Joshua	352500	1153000
1396	Wildcat Canyon	OR	Gilliam	QP	Sundale NW	453700	1202200
1397	Centennial Parkway	NV	Clark	QA	Gass Peak SW	361500	1150700
1398	Ano Nuevo State Reserve	CA	San Mateo	QP	Ano Nuevo	370500	1221500
1399	Carpinteria	CA	Santa Barbara	E	Carpenteria	342309	1193018

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1400	Santa Rosa Island	CA	Santa Barbara	E	Santa Rosa Island North	340000	1200500
1401	Airport Locality	CA	Santa Barbara	E	San Miguel West	340400	1202400
1402	Simonton Bone Canyon	CA	Santa Barbara	E	San Miguel West	340400	1202200
1403	Cuyler Harbor Beach	CA	Santa Barbara	E	San Miguel East	340400	1202000
1404	Blowout Above Cuyler	CA	Santa Barbara	E	San Miguel East	340200	1202000
1405	San Miguel Island Mammoth Locality	CA	Santa Barbara	E	San Miguel West	340200	1202600
1406	Daisy Cave	CA	Santa Barbara	E	Santa Rosa Island North	340200	1201800
1407	Stillwater Marsh Site 1048	NV	Churchill	QA	Carson Sink SW	394500	1183700
1408	Stillwater Marsh Site 1052	NV	Churchill	QA	Carson Sink SW	394500	1183700
1409	Stillwater Marsh Site 1055	NV	Churchill	QA	Carson Sink SW	394500	1183700
1410	Stillwater Marsh Site 1062	NV	Churchill	QA	Carson Sink SW	394500	1183700
1411	Stillwater Marsh Site 1068	NV	Churchill	QA	Carson Sink SW	394500	1183700
1412	Stillwater Marsh Site 1173	NV	Churchill	QA	Carson Sink SW	394500	1183700
1413	Mountain View Dump	CA	Santa Clara	E	Mountain View	372542	1220518
1414	Sunnyvale Sewer	CA	Santa Clara	QA	Milpitas	372200	1215200
1415	Point Bennet	CA	Santa Barbara	E	San Miguel West	340200	1202500
1416	Chief Joseph Dam Site 45OK4	WA	Okanogan	QA	Hopkins Canyon	480700	1190700
1417	Chief Joseph Dam Site 45OK250	WA	Okanogan	QA	Hopkins Canyon	480700	1190700
1418	Chief Joseph Dam Site 45OK287/288	WA	Okanogan	QA	Boot Mountain	480700	1191500
1419	Chief Joseph Dam Site 45DO204	WA	Douglas	QP	Boot Mountain	480700	1191500
1420	Chief Joseph Dam Site 45DO273	WA	Douglas	QA	Stubblefield Point	480000	1192200
1421	Chief Joseph Dam Site 45OK18	WA	Okanogan	QA	Stubblefield Point	480000	1192200
1422	Chief Joseph Dam Site 45DO326	WA	Douglas	QA	Stubblefield Point	480000	1192200
1423	Chief Joseph Dam Site 45DO282	WA	Douglas	QA	Stubblefield Point	480000	1192200
1424	Chief Joseph Dam Site 45OK258	WA	Okanogan	QA	Hopkins Canyon	480700	1190700
1425	Chief Joseph Dam Site 45OK11	WA	Okanogan	QA	Hopkins Canyon	480700	1190700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1426	Chief Joseph Dam Site 45OK2	WA	Okanogan	QA	Armstrong Creek	480700	1190000
1427	Chief Joseph Dam Site 45OK2A	WA	Okanogan	QA	Armstrong Creek	480700	1190000
1428	O'Malley Shelter	NV	Lincoln	E	Islen	373100	1141600
1429	Conaway Shelter	NV	Lincoln	E	Caliente	373200	1143600
1430	Scott	NV	Lincoln	E	Dow Mountain	373800	1141400
1431	Chief Joseph Dam Site 45DO211	WA	Douglas	QA	Sanderson Creek	480000	1190000
1432	Chief Joseph Dam Site 45DO285	WA	Douglas	QA	Sanderson Creek	480000	1190000
1433	Chief Joseph Dam Site 45DO214	WA	Douglas	QA	Sanderson Creek	480000	1190000
1434	Chief Joseph Dam Site 45DO242	WA	Douglas	QA	Alameda Flat	480000	1190700
1435	Chief Joseph Dam Site 45DO243	WA	Douglas	QA	Alameda Flat	480000	1190700
1436	Applegate River Site 35JA42	OR	Jackson	QP	Squaw Lakes	420000	1230000
1437	Squaw Lake	OR	Jackson	QA	Squaw Lakes	420000	1230000
1438	35JA107	OR	Jackson	QA	McLeod	423700	1223700
1439	Tiegetlinten	OR	Curry	QA	Agness	423000	1240000
1440	35JA52	OR	Jackson	QA	Carberry Creek	420000	1230700
1441	35JA108	OR	Jackson	QA	Sugarpine Creek	424500	1223700
1442	35JA53	OR	Jackson	QA	Carberry Creek	420000	1230700
1443	Albuquerque Gravel Products Quarry	NM	Bernalillo	QA	Alameda	350700	1063000
1444	Springer's Gravel Pit	NM	Bernalillo	QA	Los Griegos	350700	1063700
1445	Layser Cave	WA	Lewis	QP	Tower Rock	462200	1214500
1446	Judd Peak North	WA	Lewis	QA	Randle	463000	1215200
1447	Judd Peak South	WA	Lewis	QA	Randle	463000	1215200
1448	Mammoth Alcove	UT	Kane	QA	Alcove Canyon	371500	1103700
1449	Grobot Grotto	UT	Kane	QA	Alcove Canyon	371500	1103700
1450	Bear River No. 3	UT	Box Elder	QA	Whistler Canal	412200	1120700
1451	Woodruff Bison Kill	UT	Rich	QA	Woodruff	413000	1110700
1452	Felter Hill	UT	Duchesne	QA	Bluebell	401500	1100700
1453	Whiterocks Village	UT	Uintah	QA	Ice Cave Peak	403000	1095200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1454	Median Village	UT	Iron	QA	Summit	374500	1125200
1455	Pharo Village	UT	Millard	QP	Scipio Lake	390000	1120000
1456	Old Woman	UT	Sevier	QA	Old Woman Plateau	384500	1112200
1457	Poplar Knob	UT	Sevier	QA	Walker Flat	384500	1111500
1458	Snake Rock Village	UT	Sevier	QA	Walker Flat	384500	1111500
1459	Bear River No. 2	UT	Box Elder	QA	Bear River City	413000	1120700
1460	Nephi Mound 1	UT	Juab	QA	Mona	394500	1114500
1461	Bear River No. 1	UT	Box Elder	QA	Whistler Canal	412200	1120700
1462	Caldwell Village	UT	Uintah	QA	LaPoint	402200	1094500
1463	Navajo Reservoir Site LA 4331	NM	San Juan	QA	Navajo Dam	364500	1073000
1464	Navajo Reservoir Site LA 4314	NM	San Juan	QA	Navajo Dam	364500	1073000
1465	Navajo Reservoir Site LA 4411	NM	San Juan	QA	Navajo Dam	364500	1073000
1466	Navajo Reservoir Site LA 4072	NM	Rio Arriba	QA	Navajo Dam	364500	1073000
1467	Ramada Village	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1468	Navajo Reservoir Site LA 4294	NM	San Juan	QA	Anastacio Spring	365200	1073700
1469	Todosio Rock Shelter	NM	San Juan	QA	Archuleta	364500	1073700
1470	Navajo Reservoir Site LA 4299	NM	San Juan	QA	Archuleta	364500	1073700
1471	Navajo Reservoir Site LA 4065	NM	San Juan	QA	Archuleta	364500	1073700
1472	Navajo Reservoir Site LA 3427	NM	San Juan	QA	Archuleta	364500	1073700
1473	Navajo Reservoir Site LA 3430	NM	San Juan	QA	Archuleta	364500	1073700
1474	Valentine Village	NM	San Juan	QA	Anastacio Spring	365200	1073700
1475	Navajo Reservoir Site LA 3021	NM	San Juan	QA	Burnt Mesa	365200	1073000
1476	Albino Village	NM	San Juan	QA	Burnt Mesa	365200	1073000
1477	Power Pole	NM	San Juan	QA	Burnt Mesa	365200	1073000
1478	Bancos Village	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1479	Navajo Reservoir Site LA 3047	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1480	Cemetery	NM	San Juan	QA	Bancos Mesa NW	365200	1072200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1481	Navajo Reservoir Site LA 4385	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1482	Tres Casas	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1483	Uells	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1484	Navajo Reservoir Site LA 4245	NM	Rio Arriba	QA	Bancos Mesa NW	365200	1072200
1485	Navajo Reservoir Site LA 4247	NM	Rio Arriba	QA	Bancos Mesa NW	365200	1072200
1486	Navajo Reservoir Site LA 4242	NM	Rio Arriba	QA	Bancos Mesa NW	365200	1072200
1487	Navajo Reservoir Site La 3035	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
1488	San Miguel Island Site SMI-261A	CA	Santa Barbara	E	San Miguel East	340200	1201800
1489	Picacho Peak (Arizona)	AZ	Pinal	E	Semaniego Hills	323700	1112400
1490	Potosi Mountain Midden 2	NV	Clark	E	La Madre Mountain	360000	1152300
1491	Heltagito Rockshelter	AZ	Coconino	QA	Lee's Ferry	364500	1113000
1492	Injun Creek	UT	Weber	QP	Plain City SW	411500	1120700
1493	Bison Alcove	UT	Grand	QA	Moab	383000	1093000
1494	Murray Springs Conduit	AZ	Cochise	E	Lewis Springs	313415	1101038
1495	Rainbow Beach	ID	Power	QP	American Falls	425300	1124300
1496	Dam Local Faunal	ID	Power	QP	American Falls	424500	1124500
1497	Owl Cave	ID	Bonneville	E	Kettle Butte	433000	1122300
1498	Weston Canyon Rockshelter	ID	Franklin	QP	Weston Canyon	420000	1120000
1499	Middle Pecos Valley Site P4	NM	De Baca	QA	Eighteenmile Hill	340700	1040700
1500	Middle Pecos Valley Site P24	NM	De Baca	QA	Eighteenmile Hill	340700	1040700
1501	Garnsey Spring Camp Site	NM	Chaves	QP	Bottomless Lakes	331500	1041500
1502	Malad Hill	ID	Oneida	QA	Malad Summit	421500	1120700
1503	Squaw Creek Rockshelter	ID	Adams	QA	Homestead	450000	1164500
1504	Bernard Creek Rockshelter	ID	Idaho	QP	Old Timer Mountain	452200	1163000
1505	Philpott	OR	Coos	QP	Bullards	430700	1242200
1506	Five Fingers Buffalo Jump	ID	Owyhee	QA	Wickahoney Point	422200	1160000
1507	Medicine Creek	OR	Douglas	QA	Illahee Rock	431500	1223000
1508	Fossil Lake Camel Site	OR	Lake	QP	Fossil Lake	431500	1202200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1509	Lava Island Rockshelter	OR	Deschutes	QP	Benham Falls	435200	1212200
1510	Quill Cave	ID	Custer	QP	Bradbury Flat	442200	1140700
1511	Challis Bison Jump	ID	Custer	QP	Bradbury Flat	442200	1140700
1512	Windy Ridge Village	UT	Emery	QA	Poison Spring Bench	392200	1105200
1513	Red Lake Wash Site 5137	AZ	Coconino	QP	Howard Mesa	352200	1120700
1514	Red Lake Wash Site 5150	AZ	Coconino	QP	Howard Mesa	352200	1120700
1515	Red Lake Wash Site 5151	AZ	Coconino	QP	Howard Mesa	352200	1120700
1516	Red Lake Wash Site 5155	AZ	Coconino	QP	Howard Mesa	352200	1120700
1517	Red Lake Wash Site 5160	AZ	Coconino	QP	Howard Mesa	352200	1120700
1518	Red Lake Wash Site 5161	AZ	Coconino	QP	Howard Mesa	352200	1120700
1519	Grand Canyon Airport Site 5145	AZ	Coconino	QA	Tusayan East	355200	1120000
1520	Grand Canyon Airport Site 5166	AZ	Coconino	QA	Tusayan East	355200	1120000
1521	Grand Canyon Airport Site 5167	AZ	Coconino	QA	Tusayan East	355200	1120000
1522	Bison Rockshelter	ID	Clark	E	Eightmile Canyon	440500	1125500
1523	Veratic Rockshelter	ID	Clark	E	Eightmile Canyon	440500	1125500
1524	Dove Springs Lignites	CA	Kern	E	Cinco	352400	1180000
1525	Backhoe Village	UT	Sevier	E	Big Bend Draw	384600	1120500
1526	Innocents Ridge	UT	Emery	E	Molen	390500	1110200
1527	Cascadia Cave	OR	Linn	QP	Cascadia	442200	1222200
1528	Weis Rockshelter	ID	Idaho	QA	Fenn	455200	1161500
1529	Clyde's Cavern	UT	Emery	QA	Sids Mountain	390000	1104500
1530	10AA15	ID	Owyhee	QA	Grandview	425200	1160000
1531	Rock Creek	ID	Cassia	QA	Trapper Peak	420700	1140700
1532	Meacham	ID	Jerome	QA	Twin Falls NE	423700	1141500
1533	Rattlesnake Canyon	ID	Owyhee	QP	Bruneau	425200	1154500
1534	10OE128	ID	Owyhee	E	Opalene Gulch	432700	1164500
1535	Strawberry Island	WA	Franklin	QA	Levey SW	461500	1185200
1536	Huntington Dam	UT	Sanpete	QA	Huntington Reservoir	393000	1111500
1537	Blasingame	CA	Fresno	QA	Academy	365200	1193000
1538	Blonquist Shelter	UT	Summit	QC	Hidden Lake	404500	1110700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1540	Mora Mammoth	NM	Mora	QA	Chacon	360700	1051500
1541	Robinette Village	OR	Baker	QA	Posy Valley	444500	1170000
1542	Robinette Rockshelter	OR	Baker	QA	Posy Valley	444500	1170000
1543	Ray	OR	Baker	QA	McClain Gulch	445200	1165200
1544	Adam 2	NV	Clark	QP	Overton	363000	1142200
1545	Spotten Cave	UT	Utah	QA	West Mountain	400000	1114500
1546	Hinckley Mound 2	UT	Utah	QP	Provo	400700	1113700
1547	Hinckley Mound 3	UT	Utah	QP	Provo	400700	1113700
1548	Woodard Mound	UT	Utah	QP	Goshen Valley North	400000	1115200
1549	Seamons Mound	UT	Utah	QP	Provo	400700	1113700
1550	Smoking Pipe	UT	Utah	QP	Provo	400700	1113700
1551	Spaulding	ID	Nez Perce	QA	Lapwai	462200	1164500
1552	Evans Mound	UT	Iron	QP	Summit	374500	1125200
1553	Pyramid Lake Fishway Site 1020	NV	Washoe	QA	Pah Rah Mountain	394500	1192200
1554	Pyramid Lake Fishway Site 1016	NV	Washoe	QA	Pah Rah Mountain	394500	1192200
1555	Civa Shelter II	NV	Lincoln	QA	Water Gap West	380000	1152200
1556	Avocado Rockshelter	NV	Nye	QA	Nyala	380700	1153700
1557	Slivovitz Shelter	NV	Nye	QA	Nyala	380700	1153700
1558	Arch Creek	FL	Dade	QA	Hialeah	254500	801500
1559	Askew	FL	Citrus	QC	Lecanto	284500	822200
1560	Cushing's Site	FL	Collier	QP	Marco Island	255200	813700
1561	Colby	FL	Marion	QA	Ocala East	290700	820000
1562	Devil's Den	FL	Levy	QA	Williston	292200	822200
1563	Fort Walton Temple Mound	FL	Okaloosa	QA	Fort Walton Beach	302200	863000
1564	Dixie Lime Cave #1	FL	Marion	QA	Ocala East	290700	820000
1565	Dixie Lime Cave #2	FL	Marion	QA	Ocala East	290700	820000
1566	Tick Island	FL	Volusia	QA	Lake Woodruff	290000	812200
1567	Harrison Homestead Village	FL	Nassau	E	Amelia City	303730	812600
1568	Hontoon Island	FL	Volusia	QA	Orange City	285200	811500
1569	Palm River Midden	FL	Hillsborough	QP	Tampa	275200	822200
1570	Lehigh	FL	Dade	QA	Hialeah SW	254500	802200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1571	Madden	FL	Dade	QP	Opa-Locka	255200	801500
1572	Marco Midden	FL	Collier	QP	Marco Island	255200	813700
1573	Maximo Point	FL	Pinellas	QA	Saint Petersburg	274500	823700
1574	Mulberry Midden	FL	Osceola	QA	Cyprus Lake	280000	811500
1575	Narvaez Midden	FL	Pinellas	QP	Seminole	274500	824500
1576	Page/Ladson	FL	Jefferson	QA	St. Marks NE	300700	840000
1577	Paulson Point	FL	Sarasota	QA	Venice	270000	822200
1578	St. John's Bluff	FL	Duval	QA	Eastport	302200	813000
1579	Shell Mound	FL	Levy	QA	Cedar Key	290700	830000
1580	Snapper Creek	FL	Dade	QA	South Miami	253700	801500
1581	Summer Haven	FL	St. Johns	QA	Dinner Island NE	293700	811500
1582	Tampa Bay Shell Deposits	FL	Pinellas	QA	Cockroach Bay	273700	823000
1583	Turner River Jungle Gardens	FL	Collier	QP	Ochopee	255200	811500
1584	Waddells Mill Pond	FL	Jackson	QP	Sills	305200	851500
1585	Walker Point	FL	Nassau	E	Amelia City	303700	812600
1586	Bay Pines	FL	Pinellas	QP	Seminole	274500	824500
1587	Boynton Mound Complex	FL	Palm Beach	E	Greenacres City	263213	801321
1588	Brothers	FL	Sarasota	QP	Myakka River	270000	821500
1589	Cagles Hammock	FL	Broward	QA	Cooper City NE	260700	801500
1590	Guest Mammoth	FL	Marion	QA	Anthony	295200	820000
1591	Hawthorne Mound	FL	Alachua	QA	Hawthorne	293000	820000
1592	Lake Apopka I	FL	Orange	QP	Apopka	283700	813000
1593	Markham Park Mound No. 2	FL	Broward	QA	Andytown	260700	802200
1594	McLarty	FL	Indian River	QA	Sebastian	274500	802200
1595	Old Oak	FL	Sarasota	QP	Sarasota	271500	823000
1596	Republic Groves	FL	Hardee	QA	Zolfo Springs	272200	814500
1597	Roberts Bay	FL	Sarasota	QA	Sarasota	271500	823000
1598	Wash Island	FL	Citrus	QA	Red Level	285200	823700
1599	Weekiwachee	FL	Hernando	QP	Weekiwachee	283000	823000
1600	Wheeler Springs	FL	Okaloosa	QA	Navarre	302200	864500
1601	Yellow Bluffs-Whitaker Mound	FL	Sarasota	QP	Sarasota	271500	823000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1602	Zabski	FL	Brevard	QA	Eau Gallie	280700	803700
1603	Wacissa River Bison Site	FL	Jefferson	QA	Wacissa	301500	835200
1604	Santa Fe IA	FL	Gilchrist	QA	High Springs SW	294500	823700
1605	Bay West	FL	Collier	QA	Belle Meade	260000	813700
1606	Patrician Shell Mound	FL	Palm Beach	QP	Palm Beach	263700	800000
1607	Fletcher	FL	St. Johns	QA	Palm Valley	300700	812200
1608	Alderman	FL	Volusia	QP	Geneva	283700	810000
1609	Bishops Hammock	FL	Broward	QA	Cooper City NE	260700	801500
1610	Alligator Ford	FL	Citrus	QP	Rutland	284500	820700
1611	Hornsville	FL	Jackson	QA	Bascom	305200	850000
1612	Big Circle Mound Group	FL	Hendry	QA	Clewiston South	263700	805200
1613	Fort Center Earthworks	FL	Glades	QA	Lakeport	265200	810700
1614	Cutler Hammock	FL	Dade	E	Perrine	253640	801835
1615	St. Augustine	FL	St. Johns	QP	Saint Augustine	295200	811500
1616	Mulberry Mound	FL	Orange	QP	Lake Poinsett NW	282200	805200
1617	Warm Mineral Spring	FL	Sarasota	QP	Murdock	270000	820700
1618	Riviera Site	FL	Palm Beach	QP	Lake Worth	263000	800000
1619	Myakkahatchee	FL	Sarasota	QA	Myakka River	270000	821500
1620	Gingery Cache	FL	Taylor	QA	Nutall Rise	300700	835200
1621	Vero 2	FL	Indian River	E	Vero Beach	273900	802415
1622	Vero 3	FL	Indian River	E	Vero Beach	273900	802415
1623	Melbourne	FL	Brevard	E	Melbourne West	280400	824100
1624	Sebastian Canal	FL	Brevard	E	Fellsmere	275000	803100
1625	Seminole Field	FL	Pinellas	E	Port Tampa	274800	824500
1626	Waccasassa River 2B and 3A	FL	Levy	QP	Branson SW	291500	823700
1627	Chipola River 1A	FL	Jackson	QP	Marianna	304500	850700
1628	Chipola River 2A	FL	Jackson	QA	Oakdale	303700	850700
1629	Wakulla Springs	FL	Wakulla	E	Crawfordsville East	301405	841810
1630	New Port	FL	Wakulla	QP	St. Marks	300700	840700
1631	Sunken Spring	FL	Wakulla	QP	St. Marks	300700	840700
1632	Natural Spring Sink	FL	Leon	QP	Woodville	301500	840700
1633	Butler	FL	Gilchrist	QP	Branford	295200	825200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1634	River Estates	FL	Gilchrist	QP	Hildreth	295200	824500
1635	Santa Fe Springs	FL	Gilchrist	QA	High Springs SW	294500	823700
1636	Wilson's Springs	FL	Gilchrist	QA	High Springs SW	294500	823700
1637	Roberts	FL	Gilchrist	QA	High Springs SW	294500	823700
1638	Norden	FL	Gilchrist	QA	High Springs SW	294500	823700
1639	Hornsby Springs	FL	Alachua	E	High Springs	295100	823600
1640	Darby Spring	FL	Alachua	QA	High Springs	294500	823000
1641	Edisto Beach	SC	Charleston	E	Edisto Island	323100	801700
1642	Mefford Cave I	FL	Marion	QC	Fort McCoy	291500	815200
1643	Eichelberger Cave	FL	Marion	E	Bellevue	290200	820500
1644	Reddick 1A	FL	Marion	E	Reddick	292200	821100
1645	Haile 7A	FL	Alachua	E	Newberry	294200	823400
1646	Haile 8A	FL	Alachua	E	Newberry	294200	823400
1647	Haile 11B	FL	Alachua	E	Newberry	294200	823400
1648	Haile 14A	FL	Alachua	E	Newberry	294200	823400
1649	Arredondo 1A	FL	Alachua	E	Arredondo	293700	822400
1650	Arredondo 1B	FL	Alachua	E	Arredondo	293700	822400
1651	Arredondo 2A	FL	Alachua	E	Arredondo	293700	822400
1652	Ladson Rise	FL	Jefferson	QA	St. Marks NE	300700	840000
1653	Cut Off Sink	FL	Jefferson	QA	St. Marks NE	300700	840000
1654	Priscilla	FL	Jefferson	QA	St. Marks NE	300700	840000
1655	Ward Island 1	FL	Jefferson	QA	St. Marks NE	300700	840000
1656	Ichucknee River 3B	FL	Suwannee	E	Hildreth	295830	824530
1657	Simpson's Flats	FL	Suwannee	QP	Hildreth	295200	824500
1658	Simpson's Camp	FL	Suwannee	QP	Hildreth	295200	824500
1659	Devil's Eye Spring	FL	Suwannee	QP	Hildreth	295200	824500
1660	Dampier's Landing	FL	Suwannee	QP	Hildreth	295200	824500
1661	Bison Landing	FL	Suwannee	QP	Hildreth	295200	824500
1662	Little Salt Spring	FL	Sarasota	E	Murdock	270430	821400
1663	Nichol's Hammock	FL	Dade	E	Goulds	253200	802500
1664	Withlacoochee River 7A	FL	Citrus	QA	Yankeetown SE	290000	823000
1665	Lecanto 2A	FL	Citrus	QA	Lecanto	285200	823000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1666	Rock Springs	FL	Orange	QP	Sorrento	284500	813000
1667	Monkey Jungle Hammock	FL	Dade	E	Goulds	253400	802600
1668	Monkey Jungle No. 2	FL	Dade	E	Goulds	253400	802600
1669	West Palm Beach	FL	Palm Beach	QA	Palm Beach Farms	263700	800700
1670	Surprise Cave	FL	Alachua	QP	Newberry	293700	823000
1671	Kendrick 1A	FL	Marion	E	Ocala West	291500	821000
1672	Little Kettle Creek	GA	Wilkes	QP	Washington West	333700	824500
1673	Catfish Creek	FL	Sarasota	QP	Sarasota	271500	823000
1674	Grove's Orange Midden	FL	Volusia	QA	Osteen	284500	810700
1675	Otis Hare	FL	Liberty	QC	Queen's Bay	300700	844500
1676	Melton	FL	Alachua	QP	Micanopy	293000	821500
1677	Gauthier	FL	Brevard	QP	Lake Poinsett	281500	804500
1678	Fig Springs Mission	FL	Columbia	QC	Lake City West	300700	823700
1679	Ridgon's Horse Pasture Cave	OR	Lane	QA	Groundhog Mountain	433000	1221500
1680	Pahokee Ridge	FL	Palm Beach	QA	Port Mayaca	265200	803000
1681	Shiners Site I	NV	Washoe	QP	San Emidio Desert South	401500	1192200
1682	Shiners Site C	NV	Washoe	QP	San Emidio Desert South	401500	1192200
1683	Kramer Cave	NV	Washoe	QP	San Emidio Desert South	401500	1192200
1684	Boynton	FL	Palm Beach	QA	Lake Worth	263000	800000
1685	Bear Lake	FL	Monroe	QA	Lake Ingraham East	250700	810000
1686	Tucker	FL	Wakulla	QA	Sopchoppy	300000	842200
1687	Weeden Island	FL	Pinellas	QA	Seminole	274500	824500
1688	TA 1	FL	Taylor	QA	Snipe Island	300000	835200
1689	Palmer	FL	Sarasota	QA	Laurel	270700	822200
1690	Shired Island	FL	Levy	QA	Sumner	290700	825200
1691	Jupiter Inlet	FL	Palm Beach	QP	Jupiter	265200	800000
1692	Burtine Island	FL	Citrus	QA	Red Level	285200	823700
1693	Granada	FL	Dade	QA	Perrine	253000	801500
1694	Horr's Island	FL	Collier	QA	Marco Island	255200	813700
1695	Kings Bay Plantation	GA	Camden	QA	Harrietts Bluff	304500	813000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1696	Cherry Point Plantation	GA	Camden	QA	Harrietts Bluff	304500	813000
1697	Harmony Hall Plantation	GA	Camden	QA	Harrietts Bluff	304500	813000
1698	Goodman	FL	Duval	QA	Eastport	302200	813000
1699	Jungerman	FL	Indian River	QA	Vero Beach	273700	802200
1700	Cash Mound	FL	Charlotte	QP	Punta Gorda SW	264500	820700
1701	Useppa Island	FL	Lee	QP	Bokeelia	263700	820700
1702	Josslyn Island	FL	Lee	QP	Bokeelia	263700	820700
1703	Buck Key Midden	FL	Lee	QP	Captiva	263000	820700
1704	Big Mound Key	FL	Charlotte	QP	Punta Gorda SW	264500	820700
1705	St. Johns River Power Park Site 634	FL	Duval	E	Eastport	302530	813337
1706	St. Johns River Power Park Site 669	FL	Duval	QP	Eastport	302200	813000
1707	Perry Farms	FL	Broward	QP	Fort Lauderdale South	260000	800700
1708	Meig's Pasture	FL	Okaloosa	QA	Fort Walton Beach	302200	863000
1709	Sliding Slab Rock Shelter	AR	Sebastian	QC	Greenwood	350700	941500
1710	Bellefonte	AL	Jackson	QP	Hollywood	343700	855200
1711	Marco Island 107x1	FL	Collier	QP	Marco Island	255200	813700
1712	Marco Island 107x2	FL	Collier	QP	Marco Island	255200	813700
1713	Marco Island 107x3	FL	Collier	QP	Marco Island	255200	813700
1714	Marco Island 112	FL	Collier	QP	Marco Island	255200	813700
1715	Van Fossen	FL	Citrus	QP	Stokes Ferry	285200	821500
1716	Reddick 2C	FL	Marion	E	Reddick	292200	821100
1717	Humboldt Lakebed	NV	Churchill	QP	Lovelock Indian Caves	395200	1183000
1718	Rodgers Ridge	CA	San Bernardino	QA	Tiefort Mountains	351500	1163000
1719	Henwood	CA	San Bernardino	QA	Nelson Lake	352200	1164500
1720	Awl	CA	San Bernardino	QA	West of Drinkwater Lake	352200	1163700
1721	No Name West Basin	CA	San Bernardino	QA	West of Red Pass Lake	351500	1162200
1722	Humboldt Cave	NV	Churchill	QA	Carson Sink SW	394500	1183700
1723	Brooks Bison Site	NV	Churchill	QA	Soda Lake NW	393700	1185200
1724	Wallman Bison Site	NV	Humboldt	QA	Pinto Mountain	411500	1184500

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1725	Wallman Mammoth Site	NV	Humboldt	QA	Pinto Mountain	411500	1184500
1726	Old Humboldt	NV	Pershing	QA	Rye Patch Reservoir North	403700	1181500
1727	Crypt Cave	NV	Pershing	QA	Purgatory Peak	401500	1191500
1728	Labor-of-Love Cave	NV	White Pine	QA	North Schell Peak	392200	1143000
1729	Poker Brown Crossing	NV	Pershing	QA	Rye Patch Reservoir South	403000	1181500
1730	Shoshone Falls Caribou Site	ID	Twin Falls	QA	Stricker Butte	422200	1141500
1731	American Falls	ID	Power	QA	American Falls SW	424500	1125200
1732	Smith Creek Canyon Packrat Middens	NV	White Pine	QP	Mt. Moriah	392000	1140500
1733	Border Village	OR	Klamath	QA	Parker Mountain	420000	1221500
1734	Klamath Shoal Midden	OR	Klamath	QA	Mule Hill	420000	1220700
1735	Big Boulder Village	OR	Klamath	QA	Mule Hill	420000	1220700
1736	La Cabrana	NM	Dona Ana	E	Smeltertown	314700	1063700
1737	King Ranch	NM	Chaves	QA	South Springs	331500	1042200
1738	Fresnal Shelter	NM	Otero	QA	Sabinata Flat	330000	1055200
1739	Lake Wilson Mammoth	MN	Murray	QA	Balaton SW	440700	954500
1740	Beach Farm	MN	Olmstead	QA	Salem Corners	435200	923000
1741	Lanham Mammoth	MN	Itasca	QP	Grand Rapids	470700	933000
1742	Salie Mammoth	MN	Pipestone	QA	Edgerton North	435200	960700
1743	Seeley Sand and Gravel	MN	Dakota	QP	Coates	443700	930000
1744	Glenwood Park	MN	Hennepin	QA	Minneapolis South	445200	931500
1745	Styne Mammoth	MN	Faribault	QA	Blue Earth	433700	940000
1746	Ringgen Mammoth	MN	Mower	QA	Stewartville	434500	922200
1747	Schwartz Gravel Pit	MN	Mower	QP	Brownsdale	433700	924500
1748	Hatting Gravel Pit	MN	Rock	QP	Luverne	433700	960700
1749	Walhof Gravel Pit	MN	Pipestone	QA	Edgerton North	435200	960700
1750	Crookston Mound	MN	Polk	QA	Crookston SW	474500	963700
1751	Haarstad Mound	MN	Marshall	QC	Strandquist	482200	962200
1752	Warner Mound	MN	Polk	QP	Fertile	473000	961500
1753	Nett Lake Village	MN	Koochiching	QA	Nett Lake NW	480700	930700
1754	Humphrey Village	MN	Faribault	QP	Winnebago	434500	940700
1755	Cambria Village	MN	Blue Earth	QP	Cambria	440700	941500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1756	Great Oasis Village	MN	Murray	QA	Hadley	440000	954500
1757	Hanson <i>Megalonyx</i>	MN	Hennepin	QA	Hamel	450000	933000
1758	Nerstrand	MN	Rice	QP	Nerstrand	441500	930000
1759	Barrel Springs	NV	Pershing	QA	Rabbit Hole	404500	1184500
1761	Angel Mounds	IN	Vanderburg	QA	Evansville North	380000	873000
1762	Fifield	IN	Porter	QA	Chesterton	413000	870000
1763	Bowen	IN	Marion	QA	Fishers	395200	860000
1764	Griesmer	IN	Lake	QP	Schneider	410700	872200
1765	McCain	IN	Dubois	QC	Dubois	382200	864500
1766	Bell-Philhower	NJ	Sussex	QA	Point Jervis South	411500	743700
1767	Shaffer	IN	Greene	QA	Coal City	390700	870000
1768	Nowlin Mound	IN	Dearborn	QA	Guilford	390700	845200
1769	Yankeetown	IN	Warrick	QP	Yankeetown	375500	871500
1770	12W6	IN	Warrick	QP	Yankeetown	375500	871500
1771	Henry Muskox	IN	Greene	QA	Scotland	385200	865200
1772	Alton Gravel Pit	IN	Knox	QA	Decker	383000	873000
1773	Vieck Muskox	IN	Knox	QA	Decker	383000	873000
1774	Wilson Muskox	IN	Parke	QA	Catlin	393700	870700
1775	Langley Muskox	IN	Marion	QA	Indianapolis West	394500	860700
1776	McCormick Creek Muskox	IN	Owen	QA	Spencer	391500	864500
1777	Makemson Muskox	IN	Kosciusko	QA	North Webster	411500	853700
1778	North Liberty Muskox	IN	St. Joseph	QP	North Liberty	413000	862200
1779	Ingersol Farm	IN	Montgomery	QA	Crawfordsville	400000	865200
1780	Duncker Muskox	IN	LaPorte	QC	LaPorte East	413000	863700
1781	Beaver Lake	IN	Newton	QA	Donovan	405200	873000
1782	Deputy Cave	IN	Jefferson	QP	Deputy	384500	853700
1783	Paris Spring Cave	IN	Jennings	QP	Deputy	384500	853700
1784	Jesse Tate Cave	IN	Jennings	QP	Deputy	384500	853700
1785	Cox Cave	IN	Jennings	QP	Vernon	385200	853000
1786	Madison County Muskox	IN	Madison	QA	Anderson North	400700	853700
1787	Muncie Muskox	IN	Delaware	QA	Muncie West	400700	852200
1788	Silver Creek Sand and Gravel	IN	Clark	QA	Georgetown	381500	855200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1789	Dollens Mastodon	IN	Madison	QP	Anderson North	400700	853700
1790	Fair-to-Middl'in Well Pit	IN	Harrison	QP	Mauckport	380500	860700
1791	Horse Pit Cave	IN	Harrison	QP	Mauckport	380500	860700
1792	Passenger Pigeon Cave	IN	Harrison	QP	Leavenworth	380700	861500
1793	Devil's Staircase Pit Cave	IN	Harrison	QP	Leavenworth	380700	861500
1794	Gibbs Pit	IN	Harrison	QP	Fredericksburg	382200	860700
1795	Waterfall Cave	IN	Washington	QP	Smedley	383700	860700
1796	Suicide Cave	IN	Washington	QP	Kossuth	383700	860000
1797	Megenity Peccary Cave	IN	Crawford	QP	Taswell	381500	863000
1798	Connelly Cave	IN	Lawrence	QP	Huron	383700	863700
1799	McCart Pit Cave	IN	Lawrence	QP	Georgia	383700	863000
1800	Sleeping Bear Dune	MI	Leelanau	QA	Glen Haven	445200	860000
1801	Carcass Crypt Cave	IN	Lawrence	QP	Bedford West	384500	863000
1802	Stroud Cave	IN	Orange	QP	Valcene	382200	862200
1803	Hidden Pit Cave	IN	Owen	QP	Whitehall	390700	863700
1804	Indun Rockshelter	IN	Monroe	QC	Bloomington	390700	863000
1805	Mt. Carmel Muskox	IN	Gibson	QP	Mount Carmel	382200	874500
1806	Beetree Cave	IN	Monroe	QP	Stanford	390000	863700
1807	Trap Door Cave	IN	Monroe	QP	Stanford	390000	863700
1808	Anderson Pit	IN	Monroe	QP	Clear Creek	390000	863000
1809	Sullivan's Cave	IN	Lawrence	QP	Owensburg	385200	863700
1810	King Leo Pit Cave	IN	Harrison	QP	Depauw	381500	860700
1811	Thundermug Bone Cave	IN	Monroe	QP	Whitehall	390700	863700
1812	Flat Rock Cave	IN	Shelby	QP	Waldron	392200	853700
1813	North Vernon Cave	IN	Jennings	QP	Hayden	385200	853700
1814	North Jim Cave	IN	Harrison	QP	Mauckport	380500	860700
1815	Freeman's Pit	IN	Monroe	QP	Whitehall	390700	863700
1816	Brinegar's Cave	IN	Monroe	QP	Stanford	390000	863700
1817	Muscatatuck Caverns	IN	Jennings	QP	Butlerville	390000	853000
1818	Faultz Cave	IN	Decatur	QP	Westport	390700	853000
1819	Horse thief Cave	IN	Decatur	QP	Westport	390700	853000
1820	Dead Man's Cave	IN	Decatur	QP	Adams	392200	855200

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1821	Crawl Cave	IN	Jennings	QP	Vernon	385200	853000
1822	Henchman Cave	IN	Jennings	QP	Vernon	385200	853000
1823	Batey Cave	IN	Greene	QP	Owensburg	385200	863700
1824	Mill Cave	IN	Greene	QP	Stanford	390000	863700
1825	Patton Cave	WV	Monroe	E	Ronceverte	373236	802356
1826	Rock East Cave	IN	Monroe	QP	Stanford	390000	863700
1827	Small Dull Cave	IN	Monroe	QP	Stanford	390000	863700
1828	Showcase Pit Cave	IN	Monroe	QP	Stanford	390000	863700
1829	Galyan Pit Cave	IN	Monroe	QP	Whitehall	390700	863700
1830	Porter's Cave	IN	Owen	QP	Quincy	392200	863700
1831	Kent Cave	IN	Jefferson	QP	Kent	383700	853000
1832	Wilson Cave	IN	Jefferson	QP	Volga	384500	853000
1833	Coville Farm	MI	Kalamazoo	QA	Climax	420700	851500
1834	Wolf	MI	Macomb	QA	Mt. Clemens West	423000	825200
1835	Bridgeport	MI	Saginaw	QP	Bridgeport	431500	835200
1836	Riviere Au Vase	MI	Macomb	QA	New Haven	423700	824500
1837	Moccasin Bluff	MI	Berrien	QA	Niles West	414500	861500
1838	Spring Creek	MI	Muskegon	QA	Twin Lake	431500	860700
1839	Butterfield	MI	Bay	QA	Pinconning	434500	835200
1840	Burnt Bluff Cave	MI	Delta	QA	Maywood	454500	865200
1841	Cave Hollow	AR	Marion	QP	Pyatt	361500	924500
1842	Fenters Farm	IN	Miami	QP	Macy	405200	860700
1843	Bender <i>Cervalces</i>	IN	Noble	QP	Kendallville	412200	851500
1844	Union Township Muskox	IN	Miami	QA	Deedsville	405200	860000
1845	Feeheley	MI	Saginaw	E	Saginaw NE	432000	834500
1846	Steuben Village	IL	Marshall	E	Chillicothe	405900	892600
1847	Perkins <i>Cervalces</i>	IN	DeKalb	QP	Stroh	413000	850700
1848	Lauer <i>Cervalces</i>	IN	Allen	QP	Churubusco	410700	851500
1849	Victor Bridge	MO	Monroe	QA	Florida	392200	914500
1850	Miskill	MO	Monroe	QA	Stoutsville	393000	914500
1851	Collins	MO	Monroe	QA	Florida	392200	914500
1852	Muskrat Run	MO	Ralls	QA	Joanna	393000	913700

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1853	23MN1017	MO	Monroe	QA	Stoutsville	393000	914500
1854	23MN751	MO	Monroe	QA	Stoutsville	393000	914500
1855	Ross	MO	Monroe	QA	Florida	392200	914500
1856	Montgomery M4	MO	Barry	QA	Golden	363000	933700
1857	Montgomery M3	MO	Barry	QA	Golden	363000	933700
1858	Montgomery M2	MO	Barry	QA	Golden	363000	933700
1859	Montgomery M1	MO	Barry	QA	Golden	363000	933700
1860	Whitson Hollow	AR	Crawford	QA	Natural Dam	353700	942200
1861	Beaver Pond	AR	Crawford	QA	Natural Dam	353700	942200
1862	Craddock Shelter	AR	Crawford	QP	Mountainburg	353700	940700
1863	Frank Lee Bluff	AR	Crawford	QP	Natural Dam	353700	942200
1864	Swearingin Bluff	AR	Crawford	QP	Natural Dam	353700	942200
1865	Tidwell Hollow	AR	Crawford	QP	Natural Dam	353700	942200
1866	Amos Shelter	AR	Carroll	QA	Sandstone Mountain	361500	934500
1867	Myer Shelter	AR	Carroll	QA	Berryville	361500	933000
1868	Delmar Shelter	AR	Carroll	QA	Osage NE	360700	931500
1869	Breckenridge Shelter	AR	Carroll	QA	Beaver	362200	934500
1870	Buffalo	AR	Baxter	QP	Buffalo City	360700	922200
1871	Whitney Bluff	AR	Benton	QA	Garfield	362200	935200
1872	White Bluff	AR	Benton	QA	Bentonville South	361500	940700
1873	Spiker Shelter	AR	Benton	QA	Pea Ridge	362200	940000
1874	Salts Bluff	AR	Benton	QA	Garfield	362200	940700
1875	Red Bluff	AR	Benton	QA	Garfield	362200	940700
1876	Prall Shelter	AR	Benton	QA	War Eagle	361500	935200
1877	Morrison's Shelter	AR	Benton	QA	Garfield	362200	940700
1878	Indian Creek IC3	AR	Benton	QP	Garfield	362200	940700
1879	Indian Creek IC2	AR	Benton	QP	Garfield	362200	940700
1880	Indian Creek IC1	AR	Benton	QP	Garfield	362200	940700
1881	Green Bluff	AR	Benton	QA	Garfield	362200	940700
1882	Eden Bluff	AR	Benton	QA	Rogers	361500	940000
1883	Cow Ford	AR	Benton	QA	Rogers	361500	940000
1884	Butler B3	AR	Benton	QA	Rogers	361500	940000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1885	Butler B2	AR	Benton	QA	Rogers	361500	940000
1886	Butler B1	AR	Benton	QA	Rogers	361500	940000
1887	Bushwhack Shelter	AR	Benton	QA	War Eagle	361500	935200
1888	Alred Bluff	AR	Benton	QA	Garfield	362200	940700
1889	Brown Bluff	AR	Washington	QA	West Fork	355200	940700
1890	Curiosity Bluff	AR	Washington	QA	Winslow	354500	940700
1891	Gibson Shelter	AR	Washington	QA	Sonora	360700	940000
1892	Hulet Cave	AR	Washington	QA	Rhea	360000	942200
1893	Klondike Bluff	AR	Washington	QA	Winslow	354500	940700
1894	Noah Garden Bluff	AR	Washington	QA	Winslow	354500	940700
1895	Peterbottom	AR	Washington	QA	Sonora	360700	940000
1896	Poole Shelter	AR	Washington	QA	Durham	355200	935200
1897	Putnam Shelter	AR	Washington	QA	Sonora	360700	940000
1898	Ricard Shelter	AR	Washington	E	Wheeler	360436	942040
1899	Thomas Cave	AR	Washington	QA	Wheeler	360000	941500
1900	Cobb Cave	AR	Newton	QA	Osage SW	360000	932200
1901	Hale Cave	AR	Newton	QA	Mt. Judea NE	355200	930000
1902	Thompson Shelter	AR	Newton	QA	Mt. Judea NE	355200	930000
1903	Marble Bluff	AR	Searcy	QP	St. Joe	360000	924500
1904	Ash Cave	AR	Madison	QA	Hindsville	360700	934500
1905	Denny Cave	AR	Madison	QA	Forum	360700	933700
1906	Fanning Cave	AR	Madison	QA	Rockhouse	361500	933700
1907	Marshall Shelter	AR	Madison	QA	Hindsville	360700	934500
1908	Moonshine Hollow Shelter	AR	Madison	QA	Forum	360700	933700
1909	Panther Creek Shelter	AR	Madison	QA	Durham	355200	935200
1910	Pine Creek Shelter	AR	Madison	QA	Hindsville	360700	934500
1911	Rockhouse	AR	Marion	QA	Cozahome	360000	923000
1912	Mill Creek Bluff	AR	Washington	QA	Winslow	354500	940700
1913	Lilbourn	MO	New Madrid	QA	Catron	363000	893700
1914	Banks	AR	Crittenden	E	Jericho	352000	901500
1915	Chucalissa	TN	Shelby	E	Fletcher Lake	350400	900800
1916	Gooseneck	MO	Carter	QA	Big Spring	365200	905200

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1917	Owl's Bend	MO	Shannon	QA	Powder Mill Ferry	370700	910700
1918	Henderson	NM	Chaves	E	Hondo Reservoir	331800	1044000
1919	Tesuque By-Pass	NM	Santa Fe	QP	Tesuque	354500	1055200
1920	Grant Lloyd Gravel Pit	UT	Utah	QA	Santaquin	395200	1114500
1921	Arimo Gravel Pit	ID	Bannock	QP	Arimo	423000	1120700
1922	Minidoka Dam	ID	Minidoka	QP	Lake Wolcott West	423700	1132200
1923	Acequia Muskox	ID	Minidoka	QP	Acequia	423700	1133000
1924	Grass Mesa <i>Symbos</i>	CO	Montezuma	QP	Trimble Point	373000	1083000
1925	City Hall Muskox	TX	Kaufman	QC	Kaufman	323000	961500
1926	Salt Fork Muskox	KS	Comanche	QA	Protection NE	370700	991500
1927	Big Creek Muskox	KS	Russell	QA	Gorham	385200	990000
1928	Corsica Gravel Pit	SD	Douglas	QA	Corsica	432200	982200
1929	Bayou Sara	LA	West Feliciano	QC	Weyanoke	305200	912200
1930	West Point Gravel Pit	NE	Cuming	QA	West Point NW	415200	963700
1931	Young	AR	Baxter	QA	Mountainhome East	361500	921500
1932	Soc	AR	White	QA	Judsonia	351500	913700
1933	Aubrey	TX	Denton	QA	Aubrey	331500	965200
1934	Gassaway Fissure	TN	Cannon	E	Auburntown	355700	860100
1935	Nonconnah Creek TN-1	TN	Shelby	E	Southeast Memphis	350500	895500
1936	Rocky Hollow Shelter	MO	St. Clair	QP	Roscoe	375200	934500
1937	Magnolia Spring Shelter	MO	St. Clair	QP	Monegaw Springs	380000	934500
1938	Bryant Cave	MO	St. Clair	QP	Caplinger Mills	374500	934500
1939	Lutz Bluff Shelter	MO	St. Clair	QP	Roscoe	375200	934500
1940	Turner Cave	AR	Madison	QA	Hindsville	360700	934500
1941	Gordon	AR	Ashley	QA	Milo	331500	915200
1942	Island 35	TN	Tipton	QP	Wilson	353000	900000
1943	Little Crane Lake	LA	Moorehouse	QP	Bonita	325200	913700
1944	Clear Lake Sand and Gravel	IL	Sangamon	QA	Springfield East	394500	893000
1945	Springfield Sand and Gravel	IL	Sangamon	QA	Mechanicsburg	394500	892200
1946	Rhoads	IL	Logan	QP	Lincoln West	400700	892200
1947	Hyneman Farms	AR	Poinsett	QP	McCormick	353000	903000
1948	Hazel	AR	Poinsett	QP	Marked Tree	353000	902200

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1949	Mill Creek	AR	Stone	QA	Sylamore	355200	920000
1950	Falling Water Falls	AR	Pope	QA	Smyrna NW	353700	925200
1951	Knappenberger	AR	Mississippi	QP	Armored	355200	894500
1952	3NW539	AR	Newton	QA	Boxley	355200	932200
1953	Lander Shelter	MO	Stone	QA	Garber	363700	931500
1954	Lawhorn	AR	Craighead	E	Leachville	355800	902300
1955	Cave Knob Mound	MO	Hickory	QA	Hermitage	375200	931500
1956	Star Ridge Cairn	MO	Polk	QA	Sentinel	374500	931500
1957	Lake Tetonka	MN	Lesueur	QA	Waterville	440700	933000
1958	Mount India Cairn	MO	Hickory	QA	Wheatland	375200	932200
1959	Karr's Camp Mound	MO	Benton	E	Shawnee Bend	381806	932725
1960	Wray-Martin Mound	MO	Benton	E	Fairfield	380823	932312
1961	Fairfield Mounds	MO	Benton	E	Fairfield	380820	932352
1962	Mandrake Mound	MO	Henry	E	Leesville	381607	933331
1963	Lindley Arm Mound	MO	Hickory	E	Hermitage	375220	931635
1964	Melanin Mound 2	MO	Benton	E	Fairfield	380732	932249
1965	Morgan Mound	MO	Dade	E	Bona	373354	933756
1966	Magistrate Bluff Mound	MO	St. Clair	E	Weaubleau	375713	933708
1967	Briley Creek Mound	MO	St. Clair	E	Iconium	380531	933403
1968	Paw Paw	AR	Ouachita	QA	Camden	333000	924500
1969	Fitzhugh	AR	Lonoke	QA	Jacksonville	344500	920000
1970	Boyce Mound	MO	Jefferson	QA	Festus	380700	902200
1971	Herrell Village	MO	Jefferson	QA	Maxville	382230	902230
1972	McCormick Village	MO	Jefferson	QA	Danby	380000	901500
1973	Hidden Valley Rock Shelter	MO	Jefferson	QA	Herculaneum	381500	902230
1974	Gobbler's Knob Cairn	MO	Henry	QP	Leesville	381500	933000
1975	Beck Shelter	MO	Hickory	QP	Fristoe	380000	931500
1976	Bontke Shelter	MO	McDonald	QA	Powell	363000	940700
1977	Tick Creek Cave	MO	Phelps	QA	Newburg	375200	915200
1978	Blackwell Cave	MO	Hickory	E	Hermitage	375802	931905
1979	Loftin I	MO	Stone	E	Reeds Spring	363800	932800
1980	Guthrey	MO	Saline	E	Marshall North	392000	931100

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
1981	Utz	MO	Saline	E	Miami	391700	931500
1982	Dowell	MO	Saline	QA	Miami Station	391500	931500
1983	Hoecake	MO	Mississippi	QP	East Prairie	364500	892200
1984	Potts Village	SD	Corson	QA	Mobridge	453000	1002200
1985	Sorter's Bluff	MO	Cedar	E	Crisp	373602	934543
1986	Bowling Stone Mound	MO	Cedar	E	Crisp	373701	933926
1987	Sycamore Bridge Mound	MO	Cedar	E	Crisp	373627	934638
1988	May Brook	MO	Jackson	QA	Lees Summit	385200	942200
1989	Divine Mound	MO	Dade	E	Greenfield	373007	934742
1990	Paradise	MO	Dade	E	Aldrich	373420	933718
1991	Slick Rock Mound	MO	Polk	E	Aldrich	373227	933145
1992	Bunker Hill Mound	MO	Dade	E	Dadeville	372633	933945
1993	Umber Point Mound	MO	Cedar	E	Crisp	373712	934610
1994	Zoo Cave	MO	Taney	QP	Hilda	363700	925200
1995	Blue Earth Village	KS	Pottawatomic	QA	Turtle Creek Dam	391500	963000
1996	Moscow Fissure	WI	Iowa	QA	Hollandale	425200	895200
1997	Hurricane River Cave	AR	Searcy	E	Western Grove	360319	925558
1998	Crankshaft Cave	MO	Jefferson	QP	House Springs	382200	903000
1999	Barnhart	MO	Jefferson	QP	Herculaneum	382036	902302
2000	Kimmswick	MO	Jefferson	E	Maxville	382246	902305
2001	Mahoney	MI	Saginaw	QC	Shields	432200	840000
2002	Younge	MI	Saginaw	QP	Bridgeport	431500	835200
2003	Naugle	MI	Midland	QC	Sanford	433700	842200
2004	Berrien Springs Jail House	MI	Berrien	QA	Berrien Springs	415200	861500
2005	Morin	MI	Monroe	QA	Ida	415200	833000
2006	Sposito	MI	Mackinac	QA	Moran	455200	844500
2007	Norge Village	MI	Mackinac	QA	Moran	455200	844500
2008	Beyer	MI	Mackinac	QA	Moran	455200	844500
2009	Spoonville	MI	Ottawa	QA	Grand Haven	430000	860700
2010	Fisher Lake	MI	Leelanau	QC	Good Harbor Bay	445200	854500
2011	20WA176	MI	Washtenaw	QA	Ypsilanti West	420700	833700
2012	Birch Run Road	MI	Saginaw	QP	Birch Run North	431500	834500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2013	Mission of St. Ignace	MI	Mackinac	QP	McGulpin Point	454500	844500
2014	Trombly House	MI	Bay	QA	Bay City	433000	835200
2015	Upper Buff Creek	MI	Alcona	QC	Barton City	443700	833000
2016	Point Arcadia	MI	Manistee	QA	Bear Lake	442200	860700
2017	Caseville Airport	MI	Huron	QP	Caseville	435200	831500
2018	Gros Cap	MI	Mackinac	QA	Moran	455200	844500
2019	Veitch	MI	St. Clair	QC	Avoca	430000	823700
2020	20LP98	MI	Lapeer	QC	Lapeer	430000	831500
2021	Jahr	MI	Tuscola	QP	Quanicassee	433000	833700
2022	DeBoer	MI	Allegan	QA	Burnips	423700	854500
2023	Sand Point	MI	Baraga	QP	L'Anse	464500	882200
2024	46th Street	MI	Allegan	QA	Hamilton East	423700	855200
2025	Bailer	MI	Midland	QP	Coleman	434500	843000
2026	Midland Mastodon	MI	Midland	QA	Averill	433700	841500
2027	Shaffer	MI	Gratiot	QA	Sumner	431500	844500
2028	Rushovic	MI	Gratiot	QP	Ithica	431500	843000
2029	Cadmus Road	MI	Lenawee	QA	Hudson	414500	841500
2030	Four Lakes Drive	MI	Livingston	QA	Brighton	423000	834500
2031	Rothbury Mastodon	MI	Oceana	QA	Shelby	433000	861500
2032	Troy Mastodon	MI	Oakland	QA	Pontiac North	423700	831500
2033	Hudson Mastodon	MI	Oakland	QA	Milford	423000	833000
2034	Groleau-White Lake	MI	Oakland	QA	Clarkston	423700	832200
2035	Jolman	MI	Newaygo	QA	Newaygo	432200	854500
2036	Sakstrup	MI	Washtenaw	QA	Ypsilanti West	420700	833700
2037	Pleasant Lake	MI	Washtenaw	QA	Bridgewater	420700	835200
2038	Kuhl	MI	Washtenaw	QA	Dexter	421500	835200
2039	Killin Gravel Pit	MI	Washtenaw	QA	Ann Arbor West	421500	834500
2040	Shine	MI	Van Buren	QP	McDonald	421500	860700
2041	Zeller	MI	St. Joseph	QA	Colon	415200	851500
2042	Bryce	MI	Sanilac	QA	Sandusky	432200	824500
2043	Maurer	MI	Saginaw	QA	Birch Run North	431500	834500
2044	Evart	MI	Osceola	QP	Evart	435200	851500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2045	Mead	MI	Ingham	QP	Dansville	423000	841500
2046	Adams	MI	Livingston	QP	Oakgrove	423700	835200
2047	Ann Arbor <i>Platygonus</i>	MI	Washtenaw	QP	Ann Arbor East	421500	833700
2048	Prillwitz	MI	Berrien	QA	Berrien Springs	415200	861500
2049	Flanders	MI	Oakland	QA	Ortonville	424500	832200
2050	Ann Arbor <i>Alces</i>	MI	Washtenaw	QA	Ann Arbor West	421500	834500
2051	Watervliet Mammoth	MI	Berrien	QA	Coloma	420700	861500
2052	Lennon	MI	Genesee	E	Durand	425800	835800
2053	Sweeney	MI	Huron	QA	New Greenleaf	433700	830000
2054	Henry	MI	Iosco	QA	Tawas City	441500	833000
2055	Betz	MI	Jackson	QA	Leslie	422200	842200
2056	Seneca Mammoth	MI	Lenawee	QA	Clayton	414500	840700
2057	American Aggregates Gravel Pit	MI	Livingston	QA	Kent Lake	423000	833700
2058	Carmichael	MI	Berrien	QP	Coloma	420700	861500
2059	Zamarron	MI	Montcalm	QA	Crystal	431500	845200
2060	Hartford Proboscidean	MI	Van Buren	QP	Hartford	420700	860700
2061	Powers	MI	Van Buren	QP	Decatur	420000	855200
2062	Green	MI	Oakland	QA	Highland	423700	833000
2063	Harper	MI	Shiawasee	QP	Shafsbury	424500	841500
2064	Croton Muskox	MI	Nwaygo	QP	Croton	432200	853700
2065	Moreland Muskox	MI	Muskegon	QA	Wolf Lake	431500	860000
2066	White Pigeon Muskox	MI	St. Joseph	QA	Klinger Lake	414500	853000
2067	Scotts Muskox Spec. 2146	MI	Kalamazoo	QA	Adams Park	420700	852200
2068	Scotts Muskox Spec. 34124	MI	Kalamazoo	QA	Adams Park	420700	852200
2069	Hillsdale Muskox	MI	Hillsdale	QP	Hillsdale	415200	843700
2070	Manchester Muskox	MI	Washtenaw	QP	Manchester	420700	840000
2071	Berrien Muskox	MI	Berrien	QA	Berrien Springs	415200	861500
2072	Heisler Mastodon	MI	Calhoun	QA	Duck Lake	422200	844500
2073	Shelton Mastodon	MI	Oakland	E	Oxford	425000	832000
2074	Ludington <i>Castoroides</i>	MI	Mason	QP	Ludington Nw	435200	862200
2075	Van Horn Mammoth	MI	Arenac	QA	Skidway Lake	440700	840000
2076	Turk Lake	MI	Montcalm	QA	Trufant	431500	851500

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2077	Paw Paw Musko	MI	Van Buren	QA	Lawton	420700	854500
2078	Dowagiac River	MI	Berrien	QA	Berrien Springs	415200	861500
2079	I-96	MI	Eaton	QP	Dimondale	423700	843700
2080	Taylor	MI	Genesee	QP	Clio	430700	833700
2081	Ray Road	MI	Genesee	QA	Swartz Creek	425200	834500
2082	Johnson	MI	Genesee	QA	Davison	430000	833000
2083	Cole	MI	Genesee	QA	Swartz Creek	425200	834500
2084	Parker	MI	Eaton	QA	Hoytville	423700	845200
2085	Bronson	MI	Branch	QA	Bronson North	415200	850700
2086	Berndt	MI	Berrien	QA	Stevensville	420000	863000
2087	Rappuhn	MI	Lapeer	QA	Clifford	431500	830700
2088	Vanmiddlesworth	MI	Kalamazoo	QA	Galesburg	421500	852200
2089	Crandall	MI	Ionia	QA	Ionia	425200	850000
2090	Sheathelm	MI	Ingham	QA	Millville	423000	840700
2091	Gullich Road	MI	Ingham	QA	Shaftsbury	424500	841500
2092	Van Sickle	MI	Lapeer	QA	Lapeer	430000	831500
2093	Winn Mastodon	MI	Isabella	QP	Winn	433000	845200
2094	Thaller	MI	Gratiot	QA	Riverdale	432200	844500
2095	Smith	MI	Gratiot	QP	Ithica	431500	843000
2096	Hilgen Spring Park	WI	Ozaukee	E	Cedarsburg	431730	875830
2097	Midway	WI	La Crosse	E	Onalaska	435500	911500
2098	Cooper's Shore	WI	Rock	QA	Edgerton	424500	890000
2099	Overhead	WI	La Crosse	QP	La Crosse	434500	910700
2100	Rehbein I	WI	Richland	QP	La Farge	433000	903700
2101	Armstrong	WI	Pepin	QP	Wabasha North	442200	920000
2102	Pipe	WI	Fond Du Lac	E	Brothertown	435500	881800
2103	Bluff Siding	WI	Buffalo	QP	Winona	435500	881800
2104	Winter	MI	Delta	QA	Perkins	455200	870000
2105	11RI337	IL	Rock Island	QA	Milan	412200	903000
2106	Bigelow II	WI	Portage	E	Whiting	442800	893300
2107	Bigelow I	WI	Portage	E	Whiting	442800	893300
2108	Sanders III	WI	Waupaca	E	Clintonville	441600	885100

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2109	Sanders I	WI	Waupaca	E	Clintonville	441600	885100
2110	Jean Rita	IL	Monroe	E	Columbia	382700	901405
2111	Smiling Dan	IL	Scott	QA	Florence	393700	903000
2112	Campbell Hollow	IL	Scott	QA	Florence	393700	903000
2113	Carter Creek	IL	McDonough	QA	Doddsville	401500	903700
2114	Nile Roeder	WI	Winnebago	QP	Oshkosh	440000	883000
2115	Pammel Creek	WI	La Crosse	QP	La Crosse	434500	910700
2116	Klug	WI	Ozaukee	QP	Cedarburg	431500	875200
2117	Furman	WI	Winnebago	QA	Neenah	440700	882200
2118	Shepard	MD	Montgomery	QA	Poolesville	390700	772200
2119	Grannis Island	CT	New Haven	E	New Haven	411900	725300
2120	Goddard	ME	Hancock	QA	Brooklin	441500	683000
2121	Morril Point	MA	Essex	QA	Newbury Port West	424500	705200
2122	Sheep Rock Shelter	PA	Huntington	QP	Huntington	402200	794500
2123	Kings Bay	GA	Camden	QA	Harrietts Bluff	304500	813000
2124	Thompson's Shelter	VA	Giles	QA	Eggleston	371500	803000
2125	Hollidaysburg Fissure	PA	Blair	QA	Hollidaysburg	402200	782200
2126	Hodgdon	ME	Somerset	E	Solon	445600	695200
2127	Fingerson Mound	MN	Pope	QA	Glenwood	453700	952200
2128	McNeil Generating Plant	VT	Burlington	QP	Burlington	442200	730700
2129	Molls Rock	NH	Coos	QA	Errol	444500	710700
2130	White Oaks Mound	MN	Itasca	QA	Deer River	471500	934500
2131	Muskeeta Cove 2	NY	Nassau	QA	Mamaronek	405200	733700
2132	Arborio Mastodon	NY	Orange	QA	Walden	413000	740700
2133	Saltville	VA	Smyth	QP	Saltville	365200	814500
2134	Lost River Sink	WI	Iowa	E	Blue Mounds	430100	895100
2135	Bear Town Cave	TN	Sullivan	E	Kingsport	363415	823620
2136	Guy Wilson Cave	TN	Sullivan	E	Keensburg	362700	821300
2137	Dutchess Quarry Cave	NY	Orange	E	Warwick	412100	742200
2138	Dewey Parr	NY	Orange	QA	Middletown	412200	742200
2139	John Green	VA	Greensville	QP	Emporia	363700	773000
2140	Elm Hill	VA	Mecklenburg	QA	Boydton	363700	782200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2141	Sours	VA	Warren	QP	Bentonville	384500	781500
2142	Lauderdale	VA	Botetourt	QP	Buchanan	373000	793700
2143	Brown Johnson	VA	Bland	QA	Bastian	370700	810700
2144	T. Gray Haddon	VA	King William	QA	Beuhlaville	374500	770700
2145	Litten	VA	Washington	E	Damascus	364320	815229
2146	Miley	VA	Shenandoah	QA	Toms Brook	385200	782200
2147	Irwin	VA	Prince George	QP	Hopewell	371500	771500
2148	Wade	VA	Halifax	QA	Oak Level	363700	790000
2149	Reedy Creek	VA	Halifax	QP	South Boston	363700	785200
2150	Hertzler	VA	Powhatan	QA	Powhatan	373000	775200
2151	Crab Orchard	VA	Tazewell	QA	Tazewell North	370700	813000
2152	Hercules	VA	Alleghany	QA	Covington	374500	795200
2153	Powhatan Creek	VA	James City	QA	Norge	371500	764500
2154	Thomas	VA	Montgomery	QA	Radford North	370700	803000
2155	Lurich	VA	Giles	QA	Interior	372200	803000
2156	College Creek	VA	James City	QA	Norge	371500	764500
2157	44WR61	VA	Warren	QP	Bentonville	384500	781500
2158	Lee Mill Cave	MN	Dakota	QA	St. Paul Park	444500	925200
2159	Shannon	VA	Montgomery	QP	Blacksburg	370700	802200
2160	Hidden Valley Rockshelter	VA	Bath	QP	Warm Springs	380000	794500
2161	Bartke Mound	MN	Pope	QA	Glenwood	453700	952200
2162	Quirksburg	VA	Shenandoah	QP	New Market	383700	783700
2163	Muddy Brook Rock Shelter	NY	Putnam	E	Brewster	412916	733621
2164	Rabuilt Cave	NY	Dutchess	QP	Poughkeepsie	413700	735200
2165	Sugar Loaf Mastodon	NY	Orange	QP	Warwick	411500	741500
2166	Wapanuckey No. 6	MA	Plymouth	QA	Snipatuit	414500	704500
2167	Conant's Hill	MA	Plymouth	QA	Snipatuit	414500	704500
2168	Pocomo	MA	Nantucket	QA	Nantucket	411200	700500
2169	Hayward's Portanimitcutt	MA	Barnstable	QA	Orleans	414500	695500
2170	Calf Island	MA	Suffolk	QP	Boston South	422200	710000
2171	Carlson Annis	KY	Butler	QA	Cromwell	371500	864500
2172	Read Shell Midden	KY	Butler	QA	South Hill	370700	864500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2173	Pyles	KY	Mason	QP	Mays Lick	383000	834500
2174	Rivers	VT	Addison	QA	Vergennes East	440700	730700
2175	Seabrook	NH	Rockingham	QA	Epping	430000	710000
2176	Grandville	MI	Kent	QA	Grand Rapids West	425200	853700
2177	Schwerdt	MI	Allegan	QA	Fennville	423000	860000
2178	Sheriden Pit	OH	Wyandotte	QP	Carey	405200	832200
2179	Stony Brook	NY	Nassau	QP	Sea Cliff	404500	733700
2180	Lamoka Lake	NY	Schuler	E	Wayne	422500	770500
2181	Fowlerville Caribou	MI	Livingston	QP	Fowlerville	423700	840000
2182	Minden City Caribou	MI	Sanilac	QP	Minden City	433700	824500
2183	Glacial Lake Mogodore <i>Mammuthus</i>	MI	Cass	QA	Jones	415200	854500
2184	Shoemaker Shop	WI	Iowa	QP	Mineral Point	424500	900700
2185	Witte Farm	WI	Dane	QA	Cottage Grove	430000	890700
2186	Interstate Park	WI	Polk	QC	Balsam Lake	452200	922200
2187	Wauwatosa Caribou	WI	Milwaukee	QP	Wauwatosa	430000	880000
2188	Oostburg Caribou	WI	Sheboygan	QA	Plymouth South	433700	875200
2189	North Sulphur River	TX	Delta	QC	Pecan Gap	332200	954500
2190	Bull Brook	MA	Essex	QP	Ipswich	423700	704500
2191	Holcombe Beach	MI	Macomb	QC	Armada	424500	825200
2192	Whipple	NH	Cheshire	E	Keene	425300	721800
2193	South Sulphur River	TX	Hunt	QA	Commerce South	330700	955200
2194	Lane Cave	VA	Scott	QA	Gate City	363700	823000
2195	Meadowview Cave	VA	Washington	QC	Hayters Gap	371500	771500
2196	Comer's Cave	VA	Page	QC	Hamburg	383700	783000
2197	Keyser Farm	VA	Page	QA	Rileyville	384500	782200
2198	Abingdon	VA	Washington	QA	Abingdon	363700	815200
2199	Shipingport	PA	Beaver	QA	Midland	403700	802200
2200	Fort Hill	PA	Somerset	QA	Confluence	394500	791500
2201	Martin	PA	Fayette	QA	Ohiopyle	394500	792200
2202	Phillips	PA	Fayette	QA	Masontown	394500	795200
2203	Mammoth Cave	KY	Edmonson	QP	Mammoth Cave	370700	860000
2204	Salts Cave	KY	Hart	E	Mammoth Cave	371100	860300

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2205	Christensen Bog	IN	Hancock	QP	Greenfield	395200	854930
2206	Welsh Cave	KY	Woodford	E	Wilmore	375225	844450
2207	Wheeler's Site	MA	Essex	QA	Newburyport West	424500	705200
2208	Blain Village	OH	Ross	E	Chillicothe East	391849	825616
2209	Garoga	NY	Fulton	E	Lassellsville	430100	743200
2210	Nahrwold No.1	NY	Schoharie	E	Livingstonville	423430	742037
2211	Kelso	NY	Onondaga	E	Jordan	430100	762824
2212	Bates	NY	Chenango	E	Greene	421750	754742
2213	Sackett	NY	Ontario	E	Canandaigua	425303	771805
2214	Maxon-Derby	NY	Onondaga	E	Jordan	430340	762700
2215	Westheimer	NY	Schoharie	E	Middleburgh	424100	741824
2216	Scaccia	NY	Livingston	E	Leicester	424602	775236
2217	O'Neil	NY	Cayuga	QA	Cato	430700	763000
2218	Bent	NY	Schenectady	E	Rotterdam Junction	425100	740100
2219	Oakland Lake	NY	Queens	E	Flushing	404500	734530
2220	Twombly Landing	NJ	Bergen	QP	Hackensack	405200	740000
2221	Cole Quarry Archaic Site	NY	Monroe	QA	West Henrietta	430000	773700
2222	Pickup Pueblo	TX	El Paso	QA	El Paso	314500	1062200
2223	41Bx228	TX	Bexar	QA	San Antonio West	292200	983000
2224	41Bx180	TX	Bexar	QA	San Antonio West	292200	983000
2225	Lake Theo	TX	Briscoe	E	Lake Theo	342500	1010410
2226	McGraw	OH	Ross	E	Chillicothe East	391900	825400
2227	Graham Village	OH	Hocking	E	Logan	393200	822300
2228	Chesser Cave	OH	Athens	E	Albany	391315	821608
2229	Morrison Village	OH	Ross	E	Richmond Dale	391203	825104
2230	Krill Cave	OH	Summit	E	West Ritchfield	411100	814018
2231	Noble-Wieting	IL	McLean	QP	Heyworth	401500	885200
2232	Pitt Farm	MI	Gratiot	QA	Riverdale	432200	844500
2233	Fisher	IL	Will	QA	Channahon	412200	880700
2234	Mud Run	OH	Clark	QP	Yellow Springs	394500	835200
2235	Kolarik	IN	Starke	QP	Bass Lake	410700	863000
2236	Overpeck <i>Ursus</i>	OH	Butler	E	Monroe	393000	842000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2237	Zelienka Caribou	WI	Waushara	QA	Richford	440000	892200
2238	Wells Mastodon	IN	Fulton	QA	Pershing	410000	861500
2239	Plummer Cave	MO	Douglas	QP	Mountain Grove SE	370000	921500
2240	Hall's Cave	TX	Kerr	E	Live Oak Ranch	300800	993230
2241	Rattlesnake Pass	WY	Carbon	QP	Elk Mountain	413700	1062200
2242	Hanging Valley	IA	Harrison	QA	Little Sioux	414500	960000
2243	Edwards	OK	Beckham	QA	Sayre	351500	993700
2244	Eden-Farson	WY	Sweetwater	QA	Farson	420000	1092200
2245	Williamson	KS	Coffey	QC	Ottumwa	381500	954500
2246	Yeo	MO	Clay	QA	Smithville	392200	943000
2247	Gore Pit	OK	Comanche	QA	Arbuckle Hill	343700	981500
2248	Risley Bison Kill	MT	Lewis and Clark	QP	Augusta	472200	1122200
2249	Burris	TX	Victoria	QA	Raisin	283700	970000
2250	Boundary Mound Group	ND	Sioux	QA	Fort Yates	460000	1003700
2251	Meander	SD	Lyman	QA	Reliance SE	434500	993000
2252	New Trout Cave	WV	Pendleton	E	Sugar Grove	383610	792208
2253	Banshee Hole Local Fauna	TN	Cumberland	QA	Grassy Cove	354500	845200
2254	Prairieburg	IA	Linn	QP	Prairieburg	420700	912300
2255	Hazelton	IN	Pike	QA	Iona	383000	872200
2256	Portersville	IN	Daviess	QA	Glendale	383000	870000
2257	Potato Creek	IN	St. Joseph	QA	North Liberty	413000	862200
2258	Shoals	IN	Martin	QP	Shoals	383700	864500
2259	Fish Lake	IN	LaPorte	QP	Stillwell	413000	863000
2260	Yellowbank Creek	IN	Franklin	QP	Brookville	392200	850000
2261	Carter's Grove Plantation	VA	James City	QA	Williamsburg	371500	793700
2262	48TE114	WY	Teton	QA	Colter Bay	435200	1103700
2263	48TE111	WY	Teton	QA	Colter Bay	435200	1103700
2264	48TE1107	WY	Teton	QA	Colter Bay	435200	1103700
2265	48TE1102	WY	Teton	QA	Colter Bay	435200	1103700
2266	48TE1099	WY	Teton	QA	Colter Bay	435200	1103700
2267	Gull Island	WY	Teton	QA	Colter Bay	435200	1103700
2268	48TE1090	WY	Teton	QA	Colter Bay	435200	1103700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2269	Petitt	IL	Alexander	QA	Thebes	370700	892200
2270	Ely Cave	VA	Lee	QC	Hubbard Springs	363700	830700
2271	Keystone Rockshelter	IA	Jackson	QP	Baldwin	420000	904500
2272	Burning Tree	OH	Licking	E	Thornville	395845	822710
2273	Hiscock	NY	Genesee	QA	Byron	430000	780000
2274	Newton	PA	Bradford	E	Wyalusing	414045	762110
2275	Mill Pond	WI	Crawford	QC	Ferryville	431500	910000
2276	Preston Rockshelter	WI	Grant	QC	Lancaster	424500	903700
2277	Gilligan	KS	Coffey	QA	Ottumwa	381500	954500
2278	Two Dog	KS	Morris	QC	Wilsey	383700	963700
2279	Cow Killer	KS	Osage	QA	Osage City	383700	954500
2280	Roth	KS	Bourbon	QA	Hammond	375200	943700
2281	14MM7	KS	Miami	QA	Louisburg	383000	943700
2282	Hatcher	KS	Douglas	QC	Lawrence West	385200	951500
2283	Anderson	KS	Jefferson	QA	Ozawkie	390700	952200
2284	Kampschroeder	KS	Douglas	QC	Lawrence West	385200	951500
2285	Hart	KS	Osage	QA	Carbondale	384500	953700
2286	34WA5	OK	Washita	QC	Dill City SE	351500	990000
2287	Duncan	OK	Washita	QC	Dill City SE	351500	990000
2288	Stamper	OK	Texas	QC	Hough	364500	1013000
2289	Two Sisters	OK	Texas	QC	Hough	364500	1013000
2290	Shahan II	OK	Custer	QC	Custer City	353700	985200
2291	Phillips	OK	Custer	QC	Custer City	353700	985200
2292	Hodge	OK	Custer	QC	Custer City	353700	985200
2293	Goodman II	OK	Custer	QC	Custer City	353700	985200
2294	McLaughlin I	OK	Custer	QC	Custer City	353700	985200
2295	McLaughlin II	OK	Custer	QC	Custer City	353700	985200
2296	Little Deer	OK	Custer	QC	Custer City	353700	985200
2297	Lowrence	OK	Murray	QC	Dougherty	342200	970000
2298	Hammons	OK	Kay	QC	Newkirk SW	364500	970700
2299	Uncas	OK	Kay	QC	Newkirk SW	364500	970700
2300	Deer Creek	OK	Kay	QC	Newkirk SW	364500	970700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2301	Lacy	OK	Garvin	QC	Elmore City NE	343700	971500
2302	Hubbard	OK	Beckham	QC	Sayre	351500	993700
2303	Taylor	OK	Greer	QC	Mangum North	345200	993000
2304	Hedding	OK	Woodward	QC	Woodward NE	362200	991500
2305	34CD202	OK	Caddo	QC	Binger	351500	981500
2306	Lonker	OK	Beaver	QC	Mocane SW	364500	1002200
2307	Max Thomas	OK	Grady	QC	Alex	345200	974500
2308	Willingham	OK	McClain	QC	Cole	350000	973000
2309	Brewer	OK	McClain	QC	Cole	350000	973000
2310	Goodwin-Baker	OK	Roger Mills	QC	Cheyenne NW	353700	993700
2311	Sharrow	ME	Piscataquis	QA	Milo North	451500	685200
2312	Stolle Mammoth	NM	Roosevelt	QA	Dora NW	335200	1032200
2313	Seminole Sink	TX	Val Verde	QA	Pecos High Bridge	294500	1011500
2314	Manton Miller	TX	Delta	QP	Cooper South	331500	953700
2315	Lone Star Peccary Cave	KY	Hart	QC	Munfordville	371500	855200
2316	Chickasaw Bluffs	KY	Fulton	QP	Hickman	363000	890700
2317	Hopwood	IL	Montgomery	E	Filmore	390720	891650
2318	Jaguar Cave	TN	Fentress	E	Pall Mall	363158	845638
2319	Little Airplane Cave	TN	Hamilton	QP	Chattanooga	350000	851500
2320	Shell Bluff	MS	Lowndes	QA	Columbus North	333000	882200
2321	Fountain of Youth	FL	St. Johns	QP	Saint Augustine	295200	811500
2322	Pump Canal	LA	St. Charles	QC	Hahnville	295200	902200
2323	Devil's Walking Stick	GA	Camden	QA	Harriet's Bluff	304500	813000
2324	Morton Shell Mound	LA	Iberia	QA	Weeks	294500	914500
2325	Cemochechobee	GA	Clay	QA	Fort Gaines	313700	850000
2326	Sweetwater Rock Shelter	GA	Douglas	QA	Nebo	334500	844500
2327	Andrew's Farm	GA	Houston	QA	Perry East	322200	833700
2328	Little Egypt	GA	Murray	QA	Calhoun NE	343700	844500
2329	Hartford	GA	Pulaski	QA	Klondike	321500	833000
2330	Wallace Reservoir	GA	Greene	QA	Buckhead	333000	831500
2331	Stallings Island	GA	Columbia	QA	Appling	333000	821500
2332	Pagan Plum	GA	Chatham	QA	Isle of Hope	315200	810000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2333	Red Bird Creek	GA	Bryan	QA	Richmond Hill	315200	811500
2334	St. Catherines Island	GA	Liberty	QA	St. Catherines Sound	313700	810700
2335	9McI41	GA	McIntosh	QA	Shellman Bluff	313000	811500
2336	Kenan Field	GA	McIntosh	QA	Sapelo Sound	313000	810700
2337	North of Shell Ring	GA	McIntosh	QA	Sapelo Sound	313000	810700
2338	Bourbon Field	GA	McIntosh	QA	Doboy	312200	811500
2339	Beaverdam Creek	GA	Elbert	QA	Rock Branch	340700	824500
2340	Stucke Farm	OH	Mercer	QC	Erastus	403000	843700
2341	Eaton Furnace	OH	Mahoning	QP	Youngstown	410000	803700
2342	McGill	OH	Champaign	E	Northville	400130	834500
2343	Marion Landfill	OH	Marion	E	Marion West	403530	831110
2344	Cincinnati Sash and Door	OH	Hamilton	QA	Greenhills	391500	843000
2345	Everett Knoll	OH	Summit	QC	Peninsula	410700	813000
2346	Fremont	OH	Sandusky	QA	Lindsay	412200	830700
2347	Petch Farm	OH	Lorain	QC	Oberlin	411500	820700
2348	Peter's Cave	OH	Ross	E	Richmond Dale	391100	824800
2349	Echo Cave/Indian Cave	OH	Jackson	QP	Jackson	390000	823700
2350	Twinsburg Rock Shelter	OH	Summit	QC	Peninsula	410700	813000
2351	Boone Rock Shelter	OH	Jackson	QC	Wellston	390000	823000
2352	Kettle Hill Cave	OH	Fairfield	QC	Carroll	394500	823700
2353	Ash Cave	OH	Hocking	QA	South Bloomingville	392200	823000
2354	Orleton Farm	OH	Madison	QA	Plumwood	400000	832200
2355	Varner	PA	Greene	QA	Waynesburg	395200	800700
2356	LaMoille Cave	MN	Winona	QA	Winona West	440000	913700
2357	Pederson Village	MN	Lincoln	QA	Lake Benton NE	441500	961500
2358	Johnson Village	MN	Jackson	QP	Heron Lake	434500	951500
2359	Mt. Lake Village	MN	Cottonwood	QA	Mountain Lake	435200	945200
2360	Fox Lake Village	MN	Martin	QP	Sherburn	433700	943700
2361	Tudahl Rock Shelter	MN	Fillmore	QA	Arendahl	434500	915200
2362	Pike Bay Mound	MN	St. Louis	QA	Lost Lake	474500	922200
2363	McKinstry	MN	Koochiching	QP	Pelland	483000	933000
2364	Smith Mound No. 4	MN	Koochiching	QA	Devlin	483000	933700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2365	Saienga Mound	MN	Chippewa	QA	Milan	450000	955200
2366	Gromiller Cave	PA	Blair	QA	Holidaysburg	402200	782200
2367	Scarem	PA	Washington	QA	Clinton	402200	801500
2368	Johnston	PA	Indiana	QA	McIntyre	403000	791500
2369	Leap's Bog	PA	Monroe	QA	Mount Pocono	410000	751500
2370	Buchanan Rock Shelter	PA	Beaver	QP	Burgettstown	402200	802200
2371	Fatherland	MS	Adams	QP	Natchez	313000	912200
2372	Woodruff Rockshelter	CT	Litchfield	QP	New Preston	413700	731500
2373	D'Olive Creek	AL	Baldwin	QA	Daphne	303000	875200
2374	Seven Springs	AL	Cherokee	QA	Leesburg	340700	854500
2375	Rock House	AL	Marshall	QA	Albertville	341500	860700
2376	Little Bear Creek	AL	Colbert	QA	Pride	343700	874500
2377	La Grange	AL	Colbert	QA	Leighton	343700	873000
2378	Landers Shelter	AL	Marshall	QA	Albertville	341500	860700
2379	Buick Campsite	CO	Elbert	QA	Agate	392200	1035200
2380	Smiley Rockshelter	CO	Elbert	QA	Agate	392200	1035200
2381	Cedar Point	CO	Elbert	QA	Agate	392200	1035200
2382	Vista Shelter	MO	St. Clair	QP	Osceola	380000	933700
2383	Windy Mouth Cave	WV	Greenbrier	E	Fort Spring	374324	803200
2384	Patton Cave	WV	Monroe	E	Gap Mills	373236	802356
2385	Ramp Hole	WV	Pocahontas	E	Cass	382730	795356
2386	Cabble Cave	WV	Greenbrier	E	Williamsburg	375620	802345
2387	Concord Shelter	AL	Marshall	QA	Albertville	341500	860700
2388	Brooks Shelter	AL	Marshall	QA	Albertville	341500	860700
2389	1LE1	AL	Lee	QA	Beulah	323700	850700
2390	1LE7	AL	Lee	QA	Smiths Station	323000	850000
2391	1LE8	AL	Lee	QA	Bleecker	323000	850700
2392	1LE11	AL	Lee	QA	Bleecker	323000	850700
2393	1LE21	AL	Lee	QA	Bleecker	323000	850700
2394	Jordan Rock Shelter	GA	Muscogee	QA	Smiths Station	323000	850000
2395	Two Deer	KS	Butler	QA	Eldorado NW	375200	965200
2396	Milbourn	KS	Butler	QA	Eldorado NW	375200	965200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2397	Keaster	MT	Phillips	E	Shetland Divide	475049	1085231
2398	Callawassie Island Site 464	SC	Beaufort	QP	Spring Island	321500	804500
2399	Callawassie Island Site 1249	SC	Beaufort	QP	Spring Island	321500	804500
2400	Callawassie Island Site 1262	SC	Beaufort	QP	Spring Island	321500	804500
2401	Spring Island Site 1214	SC	Beaufort	QP	Spring Island	321500	804500
2402	Callawassie Island Burial Mound	SC	Beaufort	QP	Spring Island	321500	804500
2403	Christiansen Mound	MN	Sherburne	QA	Princeton SW	453000	933700
2404	Durant Bend	AL	Dallas	QP	Benton	321500	864500
2405	Bass Pond Dam	SC	Charleston	QP	Kiawah Island	323000	800000
2406	St. Gabriel	LA	Iberville	QP	St. Gabriel	301500	910000
2407	Basin	ME	Sagadahoc	QA	Phippsburg	434500	694500
2408	Fort Shantok	CT	New London	QA	Montville	412200	720700
2409	Manakaway	CT	Fairfield	QA	Stamford	410000	733000
2410	Ram Pasture	MA	Nantucket	QA	Nantucket	411200	700500
2411	Hidden Falls Park	MN	Ramsey	QP	Saint Paul West	445200	930700
2412	Russell <i>Symbos</i>	MN	Lyons	QP	Russell	441500	955200
2413	Mankato <i>Symbos</i>	MN	Blue Earth	QA	Mankato West	440700	940000
2414	Neuman Gravel Pit	MN	Fillmore	QP	Preston	433700	920000
2415	McCracken Farm	MN	Wabasha	QA	Theilman	441500	920700
2416	Underwood <i>Symbos</i>	MN	Ottertail	QP	Underwood	461500	954500
2417	Whalen <i>Symbos</i>	MN	Fillmore	QA	Lanesboro	433700	915200
2418	Wedgedale <i>Symbos</i>	MN	Chippewa	QA	Montevideo	445200	953700
2419	Minneapolis Giant Beaver	MN	Hennepin	QA	Minneapolis South	445200	931500
2420	Brainerd <i>Mammuthus</i>	MN	Crow Wing	QP	Brainerd	461500	940700
2421	Kenyon Mammoth	MN	Goodhue	QP	Kenyon	441500	925200
2422	Minneapolis <i>Elephas</i>	MN	Hennepin	QA	Minneapolis South	445200	931500
2423	Minnesota City Mammoth	MN	Winona	QA	Cochrane	440700	914500
2424	Breitlow Sand and Gravel	MN	Winona	QP	Winona West	440000	913700
2425	Wabasha <i>Mammuthus</i>	MN	Wabasha	QA	Wabasha North	442200	920000
2426	Stillwater <i>Mammuthus</i>	MN	Washington	QA	Stillwater	450000	924500
2427	Red Wing <i>Mammuthus</i>	MN	Goodhue	QA	Red Wing	443000	923000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2428	Minneapolis <i>Mammuthus jeffersonii</i>	MN	Hennepin	QA	Minneapolis South	445200	931500
2429	Mankato <i>Mammuthus</i>	MN	Blue Earth	QA	Mankato West	440700	940000
2430	Hastings Mammoth	MN	Dakota	QA	Hastings	443700	924500
2431	Klein	CO	Weld	QA	Greeley	403700	1043700
2432	Walker Mammoth	MN	Nobles	QC	Adrian Northeast	433700	954500
2433	St. Louis Park Mammoth	MN	Hennepin	QA	Minneapolis South	445200	931500
2434	Red Wing <i>Mammuthus jeffersonii</i>	MN	Goodhue	QA	Red Wing	443000	923000
2435	Stillwater <i>Elephas</i>	MN	Washington	QP	Stillwater	450000	924500
2436	Luverne Mammoth	MN	Rock	QP	Luverne	433700	960700
2437	Northfield Mastodon	MN	Rice	QP	Northfield	442200	930700
2438	Fridley Mammoth	MN	Anoka	QA	Coon Rapids	450700	931500
2439	Wabasha <i>Mammuthus jeffersonii</i>	MN	Wabasha	QA	Wabasha North	442200	920000
2440	Mazeppa Mammoth	MN	Wabasha	QA	Mazeppa	441500	923000
2441	Stockton Mammoth	MN	Winona	QA	Rollingstone	440000	914500
2442	Jasper <i>Mammuthus</i>	MN	Pipestone	QA	Jasper	434500	962200
2443	Worthington <i>Elephas</i>	MN	Nobles	QA	Worthington North	433700	953000
2444	Mankato Mastodon	MN	Blue Earth	QA	Mankato West	440700	940000
2445	Cedar Lake Mammoth	MN	Hennepin	QA	Minneapolis South	445200	931500
2446	Fairhaven <i>Elephas</i>	MN	Stearns	QA	Saint Augusta	452200	940700
2447	Owatonna <i>Elephas</i>	MN	Steele	QP	Owatonna	440000	930700
2448	Stritch Mammoth	MN	Wabasha	QA	Wabasha North	442200	920000
2449	Lake Minnetonka Mammoth	MN	Hennepin	QA	Excelsior	445200	933000
2450	Farmington Mammoth	MN	Dakota	QP	Farmington	443700	930700
2451	Faribault Mammoth	MN	Rice	QP	Faribault	441500	931500
2452	Budde Mammoth	MN	Wabasha	QA	Wabasha North	442200	920000
2453	Rock Island Depot	MN	Steele	QP	Owatonna	440000	930700
2454	Austin Mammoth	MN	Mower	QA	Austin West	433700	930000
2455	Dumfries Station	MN	Wabasha	QA	Wabasha South	441500	920000
2456	Frost Mammoth	MN	Faribault	QP	Frost	433000	935200
2457	Ball Club <i>Elephas</i>	MN	Itasca	QP	Ball Club	471500	935200
2458	Big Bend City	MN	Chippewa	QP	Big Bend City	450700	954500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2459	Crosby Mammoth	MN	Dakota	QP	Hastings	443700	924500
2460	Hollandale Mammoth	MN	Freeborn	QP	Hollandale	434500	930700
2461	Skarolid Mammoth	MN	Ramsey	QA	Saint Paul West	445200	930700
2462	Beardsley Mammoth	MN	Big Stone	QP	Beardsley	453000	963700
2463	Mollison <i>Elephas</i>	MN	Rice	QA	Faribault	441500	931500
2464	Zumbrota Mammoth	MN	Goodhue	QP	Zumbrota	441500	923700
2465	Lake City Mammoth	MN	Wabasha	QP	Lake City	442200	921500
2466	Round Lake Mastodon	MN	Nobles	QP	Round Lake	433000	952200
2467	Anderson Farm	MN	Goodhue	QA	Red Wing	443000	923000
2468	Belle Plaine Mammoth	MN	Scott	QA	Belle Plaine North	443700	934500
2469	Bustad Mammoth	MN	Mower	QP	Austin West	433700	930000
2470	Biesanz Pit	MN	Winona	QA	Winona West	440000	913700
2471	Holzinger Mammoth	MN	Winona	QA	Winona West	440000	913700
2472	Herman Mammoth	MN	Grant	QA	Herman	454500	960700
2473	New Ulm Mammoth	MN	Brown	QP	New Ulm	441500	942200
2474	Ellendale Mammoth	MN	Steele	QP	Ellendale	434500	931500
2475	Milwaukee Railroad Gravel Pit	MN	Wabasha	QA	Wabasha North	442200	920000
2476	Burkhardt Gravel Pit	MN	Wabasha	QA	Wabasha North	442200	920000
2477	Stier Gravel Pit	MN	Mower	QP	Grand Meadow	433700	923000
2478	Lakeland Mammoth	MN	Washington	QP	Hudson	445200	924500
2479	Deer River Mastodon	MN	Itasca	QA	Deer River	471500	934500
2480	Rich Valley Corners	MN	Dakota	QP	Inver Grove Heights	444500	930000
2481	Finberg Mammoth	MN	Rock	QA	Luverne	433700	960700
2482	Austin Mammoth	MN	Steele	QP	Owatonna	440000	930700
2483	Sibley Mammoth	MN	Wabasha	QP	Mazeppa	441500	923000
2484	Bingham Lake	MN	Cottonwood	QP	Bingham Lake	435200	950000
2485	Paulson Mammoth	MN	Olmstead	QA	Rochester	440000	922200
2486	Albert Lea Mammoth	MN	Freeborn	QP	Albert Lea West	433700	932200
2487	Melrose Mammoth	MN	Stearns	QP	Melrose	453700	944500
2488	Trafton Mammoth	MN	Blue Earth	QA	Mankato East	440700	935200
2489	Good Thunder	MN	Blue Earth	QP	Good Thunder	440000	940000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2490	Fergus Falls	MN	Ottertail	QP	Fergus Falls	461500	960000
2491	Kolshorn	MN	Goodhue	QP	Red Wing	443000	923000
2492	Witoka Mastodon	MN	Winona	QP	Witoka	435200	913000
2493	Gronvall Mammoth	MN	Goodhue	QA	Red Wing	443000	923000
2494	Blamefield Mammoth	MN	Hennepin	QA	Excelsior	445200	933000
2495	Cole Mammoth	MN	Goodhue	QP	Kenyon	441500	925200
2496	Racine Mammoth	MN	Mower	QA	Stewartville	434500	922200
2497	Kahler Mammoth	MN	Rock	QP	Luverne	433700	960700
2498	Chisholm	MN	St. Louis	QA	Dewey Lake	473000	925200
2499	Fisher Farm	MN	Dakota	QA	Inver Grove Heights	444500	930000
2501	Berome Moore Cave	MO	Perry	E	Lithium	374625	895330
2502	Crevice Cave	MO	Perry	E	Belgique	374508	895228
2503	Cherokee Cave	MO	St. Louis	E	Cahokia	383535	901300
2504	Herculaneum Fissure	MO	Jefferson	E	Herculaneum	381625	902302
2505	Little Bluff Cave	MO	Shannon	QP	Powder Mill Ferry	370700	910700
2506	Ozark Underground Lab	MO	Taney	QC	Forsyth	363700	930000
2507	Mill Creek	MO	Atchison	QP	Fairfax	401500	952200
2508	Leeton Strip Mine	MO	Johnson	QA	Leeton	383000	933700
2509	Davis Creek	MO	Lafayette	QA	Higginsville	390000	933700
2510	Stoneking Mastodon	MO	Lafayette	QP	Waverly	390700	933000
2511	Enon Sink	MO	Moniteau	QP	Enon	382200	922200
2512	Lackmann Mastodon	MO	Montgomery	QP	Hermann	383700	912200
2513	West Cave	MO	Pulaski	QA	Brownfield	373700	921500
2514	Boney Spring	MO	Benton	E	Fristoe	380610	932240
2515	Jones Spring	MO	Hickory	E	Fristoe	380350	932100
2516	Trolinger Spring	MO	Hickory	E	Fristoe	380350	932050
2517	Koch Spring	MO	Hickory	E	Fristoe	380312	931940
2518	Jerry Long Cave	MO	Ralls	QP	Perry	392200	913700
2519	Kelly Hollow Cave	MO	Oregon	E	Birch Tree	364915	911600
2520	New Cave	AR	Newton	QC	Mt. Judea	355200	930000
2521	Elisha Estes Cave	MO	Benton	QC	Lincoln SE	381500	931500
2522	Nameless Cave	MO	Crawford	QA	Sullivan	380700	910700
2523	Double Drop Cave	MO	Howell	QC	Pomona	364500	915200

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2524	Mary Lawson Cave	MO	Laclede	QC	Oakland	373700	923000
2525	Offutt Pit	MO	Laclede	QC	Oakland	373700	923000
2526	Big Cave	MO	Greene	QC	Willard	371500	932200
2527	Jones Cave #1	MO	Dade	QC	Greenfield	372200	934500
2528	Mousetrap Cave	MO	Greene	QC	Willard	371500	932200
2529	Jacobs Cave	MO	Morgan	QA	Proctor Creek	381500	925200
2530	Klump Cave	MO	Perry	QC	Perryville East	373700	894500
2531	Mill Creek Cave	MO	Phelps	QC	Rolla	375200	914500
2532	Berry Cave	MO	Pulaski	QP	Big Piney	373700	920000
2533	Blow Hole	MO	Pulaski	QC	Ozark Springs	374500	921500
2534	Bushwhacker Cave	MO	Pulaski	QP	Waynesville	374500	920700
2535	Cox Cave	MO	Pulaski	QP	Big Piney	373700	920000
2536	Great Spirit Cave	MO	Pulaski	QC	Ozark Springs	374500	921500
2537	Grempczynski Cave #1	MO	Pulaski	QP	Waynesville	374500	920700
2538	Lipscomb Cave	MO	Pulaski	QP	Waynesville	374500	920700
2539	Piquet Cave	MO	Pulaski	QP	Waynesville	374500	920700
2540	Onyx Cave	MO	Pulaski	QP	Waynesville	374500	920700
2541	Richland Cave	MO	Pulaski	QP	Richland	374500	922200
2542	Rollins Cave #2	MO	Pulaski	QP	Waynesville	374500	920700
2543	Roubidoux Cave	MO	Pulaski	QA	Waynesville	374500	920700
2544	Bat Cave	MO	Shannon	QP	Round Spring	371500	912200
2545	Larkin Ford Cave	MO	Shannon	QC	Alley Spring	370700	912200
2546	Leatherwood Cave	MO	Shannon	QC	Alley Spring	370700	912200
2547	Powder Mill Creek Cave	MO	Shannon	QP	Powder Mill Ferry	370700	910700
2548	Round Spring Cavern	MO	Shannon	QP	Round Spring	371500	912200
2549	Wind Cave	MO	Shannon	QC	Alley Spring	370700	912200
2550	Blackwater River	MO	Johnson	QC	Warrensburg West	384500	934500
2551	Tom Moore Cave	MO	Perry	QA	Perryville West	373700	895200
2552	Kirby Spring	MO	Hickory	E	Fristoe	380350	932110
2553	Saba Shelter	MO	Benton	QA	Shawnee Bend	381500	932200
2554	Fischer-Gabbert	MO	Saline	QA	Miami Station	391500	931500
2555	Givens	MO	Cooper	QA	Brunswick West	392200	930700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2556	Imhoff	MO	Saline	QA	Marshall South	390000	930700
2557	Mellor	MO	Cooper	QA	Arrow Rock	390000	925200
2558	Smith Shelter	MO	Crawford	QP	Sullivan	380700	910700
2559	Patten	MO	Crawford	QP	Sullivan	380700	910700
2560	Merkel Cave	MO	Washington	QP	Sullivan	380700	910700
2561	Thurman	MO	Henry	E	Leesville	381612	933525
2562	Eckhardt Cairn	MO	Henry	QP	Leesville	381500	933000
2563	Mount Ilo Cairn	MO	Henry	QP	Leesville	381500	933000
2564	Sugarloaf Butte	ND	Morton	QP	Sugar Loaf Butte	463700	1003700
2565	Grundel Mastodon	MO	Holt	QA	Fairfax	401500	952200
2566	Phillips Spring	MO	Hickory	E	Fristoe	380335	931920
2567	Pot Shelter	MO	Crawford	QA	Onondaga Cave	380000	910700
2568	McCutchan-McLaughlin	OK	Latimer	QA	Red Oak	345200	950000
2569	Gumbo Point	MO	Saline	QA	Miami Station	391500	931500
2570	Carrington	MO	Vernon	QA	Nevada	374500	941500
2571	Brown	MO	Vernon	QA	Harwood	375200	940700
2572	Hayes	MO	Vernon	QA	Horton	375200	941500
2573	Sand Bluff Shelter C	MO	Dade	QA	Cedarville	373000	935200
2574	Chapuis	MO	Pike	QC	Vera	392200	910700
2575	Bundy	MO	Pike	QC	Vera	392200	910700
2576	Rodgers Shelter	MO	Benton	E	Fristoe	380520	932100
2577	23FR123	MO	Franklin	QA	Leslie	382200	910700
2578	23FR124	MO	Franklin	QA	Leslie	382200	910700
2579	23FR234	MO	Franklin	QA	Leslie	382200	910700
2580	Aker	MO	Platte	QA	Platte City	391500	944500
2581	Steed-Kisker	MO	Platte	QA	Platte City	391500	944500
2582	Renner	MO	Platte	QA	Ferrelview	391500	943700
2583	Albert Mound	MO	Cedar	QA	Stockton	373700	934500
2584	Amity Mound	MO	Cedar	QA	Stockton	373700	934500
2585	Clemons Mound	MO	Cedar	QA	Stockton	373700	934500
2586	Russell Cave	AL	Jackson	QP	Doran Cove	345200	854500
2587	Shady Grove	MO	Polk	QP	Aldrich	373000	933000

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2588	Friend and Foe	MO	Clay	QP	Arley	392200	942200
2589	Butcher	MO	Clay	E	Nashua	392705	943210
2590	Wet Hollow Cave	MO	Franklin	QA	Sullivan	380700	910700
2591	Slone	KY	Pike	QP	Lick Creek	372200	821500
2592	Stanfield-Worley	AL	Colbert	E	Barton	343900	875300
2593	McKeithen Village	FL	Columbia	QA	White Springs West	301500	824500
2594	P-Flat	WI	Ashland	QP	Oak Island	465200	903700
2595	Wilson-Leonard	TX	Williamson	QA	Leander	303000	974500
2596	Morton Village	IL	Fulton	QA	Saint David	402200	900000
2597	Norris Farm 36	IL	Fulton	QA	Saint David	402200	900000
2598	Powell Mound	IL	Madison	QA	Monks Mound	383700	900000
2599	Perry Mastodon	IL	Du Page	E	Wheaton	415238	880359
2601	Cooke	IL	Cook	QP	Barrington	420740	881405
2602	Hoxie Farm	IL	Cook	E	Calumet City	413444	873533
2603	Huber	IL	Cook	E	Blue Island	413917	874530
2604	Knoll Springs	IL	Cook	E	Tinley Park	414211	874950
2605	Oak Forest	IL	Cook	E	Harvey	413606	874308
2606	Anker	IL	Cook	QP	Calumet City	413632	873526
2607	Riverton	IL	Crawford	E	Mexom	390118	873432
2608	Robeson Hills	IL	Lawrence	E	Russellville	384237	873122
2609	Swan Island	IL	Crawford	E	Heathsville	385111	873217
2610	Copperas Creek	IL	Fulton	E	Banner	403058	895407
2611	Dickson Camp	IL	Fulton	E	Havana	402105	900711
2612	Dickson Pond	IL	Fulton	E	Havana	402105	900711
2613	Apple Creek	IL	Greene	E	Kampsville	392204	903213
2614	Carlin	IL	Calhoun	QP	Pearl	392108	903729
2615	Knight	IL	Calhoun	QP	Pearl	391651	904404
2616	Snyder	IL	Calhoun	QP	Hardin	390410	904008
2617	Pete Klunk Mound Group	IL	Calhoun	QP	Pearl	391810	903649
2618	Gibson Mound Group	IL	Calhoun	QP	Pearl	391729	903641
2619	Hemphill Mound	IL	Brown	QP	Meredosia	395555	903253
2620	Bachr Mound #2	IL	Brown	QP	Meredosia	395543	903253

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2621	Biddle Farm	IL	Kane	E	Elburn	415523	882643
2622	Tonica Thermokarst	IL	La Salle	E	Tonica	411324	890440
2623	Jinks Hollow	IL	Henderson	QP	Oquawka	405353	905129
2624	Bell Farm	IL	Champaign	E	Rising	400758	881931
2625	Painter Creek	IL	Hancock	E	Plymouth	401850	905731
2626	Cairo	IL	Alexander	E	Cairo	370011	891111
2627	Golconda	IL	Pope	E	Golconda	372110	882903
2628	Valentine Bog	IL	Kendall	E	Yorkville	414110	882545
2629	Woodstock	IL	McHenry	QP	Woodstock	421500	882200
2630	Russman's Farm	IL	Ogle	E	Rochelle	415922	890053
2631	Stannard Mammoth	IL	DeKalb	QC	Hinckley	414500	883700
2632	Dixon Mammoth	IL	Lee	QA	Dixon West	414500	893000
2633	Renton Farm	IL	Kendall	QA	Plano	413700	883000
2634	Maple Park	IL	Kane	E	Big Rock	415115	883509
2635	Pfeffer Farm	IL	Champaign	E	Tolono	395452	881526
2636	Rossville	IL	Vermillion	E	Henning	402209	874044
2637	NIU-28	IL	La Salle	QP	Sheridan	413000	883700
2638	NIU-123	IL	Du Page	QP	Naperville	414500	880700
2639	Manito	IL	Mason	QP	Manito	402543	894551
2640	Busey Farm	IL	Champaign	QP	Bondville	400342	882026
2641	George Field	IL	Lawrence	QP	Birds	384530	873733
2642	Polecat Creek	IL	Coles	QP	Oakland	393114	880116
2643	New Bedford	IL	Bureau	E	Yorktown	413038	894403
2644	Near Pekin	IL	Tazewell	QA	Pekin	403143	894005
2645	Ashmore I	IL	Coles	E	Ashmore	393138	880107
2646	Ashmore II	IL	Coles	E	Ashmore	393110	880155
2647	Beecher	IL	Will	E	Beecher East	412139	873523
2648	Purvis Farm	IL	Moultrie	QP	Sullivan	394809	885803
2649	Mississippi River Dredge	IL	Jackson	QP	Wolf Lake	373049	892952
2650	Meyer Cave	IL	Monroe	QP	Oakville	382348	901514
2651	Hog Bluff	IL	Johnson	QP	Griggsville	393700	903700
2652	Couch Cave	IL	Monroe	QP	Renault	380819	900843

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2653	Clear Lake Village	IL	Tazewell	QP	Manito	402611	895355
2654	Sister's Creek Village	IL	Fulton	QP	Havana	402357	900335
2655	Sister's Creek Mound 54	IL	Fulton	QP	Havana	402357	900335
2656	Ogden-Fettie Mound 191	IL	Fulton	QP	Havana	402023	900702
2657	Gooden Mound 86	IL	Fulton	QP	Havana	402459	900058
2658	Hummel Camp	IL	Fulton	QP	Avon	404121	901549
2659	Crable	IL	Fulton	QP	Chandlerville	401114	901303
2660	Liverpool Mound Group	IL	Fulton	QP	Havana	402307	900057
2661	Morton Mound 7	IL	Fulton	QP	Havana	402158	900537
2662	Morton Mound 10	IL	Fulton	QP	Havana	402158	900537
2663	Morton Mound 11	IL	Fulton	QP	Havana	402158	900537
2664	Morton Mound 12	IL	Fulton	QP	Havana	402158	900537
2665	Morton Mound 13	IL	Fulton	QP	Havana	402158	900537
2666	Morton Mound 680	IL	Fulton	QP	Havana	402158	900537
2667	Morton Mound 14	IL	Fulton	QP	Havana	402158	900537
2668	Morton Mound 15	IL	Fulton	QP	Havana	402158	900537
2669	Lundy	IL	Jo Daviess	QA	Bellevue	421500	902200
2670	Rock River	IL	Ogle	E	Kishwaukee	420854	891454
2671	New Milford	IL	Winnebago	E	Rockford South	421040	890726
2672	DeMange/Turner	IL	St. Clair	QP	French Village	383506	900549
2673	Atwood	IL	Piatt	E	Atwood	394759	882813
2674	Gross Farm	IL	Ogle	E	Brookville	420748	893847
2675	Bellflower	IL	McLean	E	Belleflower	402033	883126
2676	Bamford Farm	IL	Grundy	QP	Minooka	412917	881750
2677	Shawneetown	IL	Gallatin	E	Shawneetown	374139	880829
2678	Half Moon Lick	IL	Gallatin	QP	Equality	374348	882024
2679	Jewell Farm	IL	Du Page	E	Wheaton	415013	880542
2680	Glencoe	IL	Cook	E	Evanston	420744	874447
2681	Turner's Strippings	IL	Grundy	E	Coal City	412220	882209
2682	South Fork Sangamon River	IL	Christian	E	Edinburg	393857	892613
2683	Evanston	IL	Cook	E	Evanston	420321	874048
2684	Buckhart Sand and Gravel	IL	Sangamon	QP	Mechanicsburg	394513	892633

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2685	Sangamon Valley Sand and Gravel Co.	IL	Sangamon	QP	Springfield East	394723	893001
2686	Hill Top Ridge	IL	Fulton	QP	Havana	402146	900542
2687	Crystal Lake	IL	McHenry	E	Crystal Lake	421500	881500
2688	Phillips Park	IL	Kane	QP	Aurora South	414419	881751
2689	Danville	IL	Vermillion	E	Danville NW	401050	873812
2690	Beaucoup	IL	Washington	E	Beaucoup	382126	891729
2691	Sandoval	IL	Marion	E	Centralia East	383655	890716
2692	Bloomfield	IL	Edgar	E	Chrisman	394529	874053
2693	Fairmount	IL	Vermillion	E	Oakwood	400111	874828
2694	Chicago/Burlington/Quincy Railroad	IL	Kane	QA	Aurora South	414510	882325
2695	National Tube Company	IL	Henry	E	Kewaunee South	411406	895529
2696	Penny's Slough	IL	Henry	E	Spring Hill	413233	901058
2697	Alton	IL	Madison	E	Alton	385501	901256
2698	Arnold Farm	IL	Cass	E	Ashland	395314	900034
2699	Peter's Cave	IL	Jackson	QP	Murphysboro	374824	892729
2700	Kingfish	IL	St. Clair	QA	New Athens West	381500	895200
2701	Koster	IL	Greene	QP	Hardin	391232	903311
2702	Chalk Bluff Rockshelter	IL	Jackson	QP	Alto Pass	374048	892425
2703	Orendorf	IL	Fulton	E	Duck Island	402919	895647
2704	Putney Landing	IL	Henderson	E	Keithsburg	410154	905550
2705	SIUC 24B4-181	IL	Union	QC	Jonesboro	372200	891500
2706	SIUC 24B4-262	IL	Union	QC	Jonesboro	372200	891500
2707	SIUC 24B4-187	IL	Union	QC	Jonesboro	372200	891500
2708	SIUC 24B4-183	IL	Union	QC	Jonesboro	372200	891500
2709	Weaver	IL	Fulton	QP	Havana	402531	900026
2711	Schild	IL	Greene	QP	Hardin	391402	903307
2712	Scovill	IL	Fulton	E	Lewiston	402346	901254
2713	Plum Island	IL	La Salle	QP	Ottawa	411935	890004
2714	Holdener	IL	St. Clair	QP	French Village	383524	900220
2715	Dohack	IL	St. Clair	QP	Columbia	382902	901254
2716	Go-Kart	IL	Monroe	QP	Columbia	382903	901317

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2717	Dryoff	IL	St. Clair	QP	Cahokia	383152	901140
2718	BBB Motor	IL	Madison	QP	Monk's Mound	384028	900132
2719	Alpha #1/Alpha #7	IL	St. Clair	QP	French Village	383000	900000
2720	Steinberg	IL	St. Clair	QP	French Village	383353	900450
2721	Columbia Quarry	IL	St. Clair	QP	Cahokia	383000	900700
2722	Cramer #2	IL	St. Clair	QP	Cahokia	383147	901026
2723	Columbia Farm	IL	Monroe	QP	Columbia	382805	901317
2724	Fish Lake	IL	Monroe	QP	Columbia	382200	900700
2725	Lohmann	IL	St. Clair	QP	French Village	383539	900705
2726	Carbon Monoxide	IL	Monroe	QP	Columbia	382827	901339
2727	Truck #7	IL	Monroe	QP	Columbia	382850	901326
2728	Florence Street	IL	St. Clair	QP	Cahokia	383331	900850
2729	George Reeves	IL	St. Clair	QP	Columbia	382909	901231
2730	Range Community I	IL	St. Clair	QP	Cahokia	383056	901203
2731	Range	IL	St. Clair	QP	Cahokia	383056	901203
2732	Stilwell	IL	Pike	QP	Pearl	392818	903644
2733	Irving	IL	Pike	QP	Meredosia	394956	903938
2734	Busch Estate	IL	Pike	QP	Barry	393945	911329
2735	Kingston Lake	IL	Peoria	QP	Peoria	403322	894455
2736	Elizabeth Mounds	IL	Pike	QP	Griggsville	394117	903846
2737	Renchville Mound	IL	Peoria	QP	Dunlap	405002	893330
2738	Robinson's Lake	IL	Madison	QP	Monk's Mound	384028	900147
2739	Missouri Pacific #2	IL	St. Clair	QP	Cahokia	383023	901254
2740	Kane Village	IL	Madison	QP	Alton	384527	900012
2741	Havana Village Group	IL	Mason	QP	Havana	401648	900447
2743	Waterman	IL	Randolph	QA	Prairie Du Rocher	380000	900000
2744	Utica Mound Group	IL	La Salle	QP	La Salle	411936	890145
2745	Frederick	IL	Schuyler	QP	Beardstown	400411	902612
2746	Coon Dog	IL	Saline	QP	Harrisburg	373928	883659
2747	Slope Head	IL	Saline	QP	Harrisburg	373935	883729
2748	Yokem	IL	Pike	QP	Nebo	392812	905421
2749	Mossville	IL	Peoria	QP	Dunlap	404923	893510

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2750	Dickison Mound 478	IL	Peoria	QP	Dunlap	405002	893330
2751	Black Earth	IL	Saline	QP	Harrisburg	373943	883728
2752	Napoleon Hollow	IL	Pike	E	Griggsville	394112	903839
2753	Hill Creek Homestead	IL	Pike	QP	Pearl West	392200	903700
2754	Burkemper	MO	Lincoln	QA	Maryknoll	385200	904500
2755	Kruse Bluffbase #3	IL	Monroe	QC	Waterloo	381500	900700
2756	Fitzgibbons	IL	Gallatin	QC	New Haven SW	374500	880700
2757	Marty Coolidge	IL	Monroe	E	New Athens West	381700	895400
2758	Rench	IL	Peoria	QA	Peoria West	403700	893700
2759	Grammer Rockshelter	IL	Jackson	QA	Gorham	373700	892200
2760	Cypress Land	IL	Greene	QA	Kampsville	391500	903000
2761	Kincaid	IL	Massac	QA	Paducah NE	370700	883000
2762	Hotel Plaza	IL	La Salle	QP	Starved Rock	411500	885200
2763	Gamble	IL	Lawrence	QA	Birds	384500	873700
2764	Riebling #1	IL	Monroe	QA	Columbia	382200	900700
2765	Bluff Shadow	IL	Monroe	QA	Columbia	382200	900700
2766	Robinson Reserve	IL	Cook	QC	Berwyn	414500	874500
2767	Albany	IL	Whiteside	QP	Clinton	414500	900700
2768	Lowe	IL	Crawford	QC	Eaton	390000	874500
2769	20SA1034	MI	Saginaw	QP	Bridgeport	431500	835200
2770	State Road Coulee	WI	La Crosse	QA	La Crosse	434500	910700
2771	Little Muddy Rock Shelter	IL	Jackson	QP	Desoto	374500	890700
2772	Cahokia Wedge	IL	St. Clair	QP	Monk's Mound	383700	900000
2773	Naples Mound	IL	Scott	QP	Griggsville	393700	903700
2774	Macoupin	IL	Greene	QA	Kampsville	391500	903000
2775	Rose Mound Group	IL	Schuyler	QC	Erwin	400700	903700
2776	Cahokia Interp. Tract	IL	St. Clair	QP	Monk's Mound	383852	900409
2777	Wilson Mounds	IL	White	QP	New Haven	375945	880154
2778	Crane	IL	Greene	QP	Jerseyville North	390700	901500
2779	Loy	IL	Greene	QP	Meredosia	394500	903000
2780	Labras Lake	IL	St. Clair	QP	Cahokia	383231	901044
2781	Hagan Mound	IL	Schuyler	QC	Erwin	400700	903700

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2782	Peisker	IL	Calhoun	QA	Pleasant Dale Valley	391500	903700
2783	Weitzer	IL	Greene	QP	Pearl East	392200	903000
2784	Newbridge	IL	Greene	QP	Pearl East	392200	903000
2785	Krueger Farm Cemetery	IL	Monroe	QP	Columbia	382200	900700
2786	Hood	IL	Macon	QP	Decatur	394500	885200
2787	Robert Pool	IL	Pike	QP	Mercedosa	394500	903000
2788	Sugar Camp Hill	IL	Williamson	QP	Carbondale	374302	890023
2789	Little Chains	IL	White	QP	Emma	375700	880224
2790	Alkali Ridge	UT	San Juan	QA	Blanding North	373700	1092200
2791	Bonanza Dune	UT	Uintah	QA	Bonanza	400000	1090700
2792	Bartlett Wash	UT	Grand	QA	Calf Canyon	390000	1093000
2793	Professor Valley	UT	Grand	QA	Cisco	385200	1091500
2794	Hooper's Hollow	UT	Kane	QA	Davis Gulch	371500	1105200
2795	Porcupine Cave	UT	Summit	QA	Porcupine Ridge	410000	1110000
2796	Tooele	UT	Tooele	QA	Tooele	403000	1121500
2797	Marysvale	UT	Piute	QA	Marysvale	382200	1120700
2798	Ephraim	UT	Sanpete	QA	Ephraim	391500	1113000
2799	Wilcox Gravel Pit	AZ	Cochise	E	Red Bird Hills	320900	1095100
2800	Modoc Rock Shelter	IL	Randolph	E	Prairie Du Rocher	380345	900351
2801	Bellevue	IL	Calhoun	E	Pleasant Dale Valley	392112	904526
2802	Lemont	IL	Du Page	QP	Sag Bridge	414129	875849
2803	Cambridge	IL	Henry	E	Cambridge	411729	901052
2804	Hoopeston	IL	Vermilion	QP	Hoopeston	402200	873700
2805	Galena Lead Region	IL	Jo Daviess	E	Galena	422437	902652
2806	Correll Farm	IL	Sangamon	E	Niantic	394945	891143
2807	Haas Gravel Pit	IL	Cook	E	Berwyn	415237	874945
2808	Guinrich Farm	IL	Vermilion	E	East Lynn	402803	874803
2809	Rural Township	IL	Rock Island	E	Mathersville	412137	903241
2810	Peoria Gravel Bed	IL	Peoria	E	Peoria West	404306	894015
2811	Stillman's Run	IL	Ogle	E	Stillman Valley	420724	891326
2812	Lake Wildwood Haven	IL	Fulton	QP	Bushnell East	403137	902625
2813	Grace Chapman Group	IL	Jo Daviess	QA	Hanover	421500	901500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2814	Mills Village Group	IL	Jo Daviess	QA	Hanover	421500	901500
2815	Portage Group	IL	Jo Daviess	QA	Galena	422200	902200
2816	Dunlieth Mounds	IL	Jo Daviess	QA	Hanover	421500	901500
2817	Cove Hollow Shelter	IL	Jackson	QP	Pomona	373700	891500
2818	Dillinger	IL	Jackson	QA	Herrin	374500	890000
2819	Raymond	IL	Jackson	QA	Herrin	374500	890000
2820	Carbon Dioxide	IL	Monroe	E	Columbia	382836	901326
2821	Mund	IL	St. Clair	QP	Columbia	382955	901249
2822	Julien	IL	St. Clair	QP	Cahokia	383316	900902
2823	Glen Canyon	UT	Kane	QA	Mazuki Point	370700	1110700
2824	Coombs	UT	Garfield	QC	King Bench	374500	1111500
2825	Sandblast Cave-Grand Canyon	AZ	Coconino	QA	Coyote Butte	365200	1120000
2826	Tse'An Kaetan Cave-Grand Canyon	AZ	Coconino	QA	Phantom Ranch	360000	1120000
2827	Winslow	AZ	Navajo	QA	Winslow	350000	1103700
2828	Skull Cave	AZ	Coconino	QA	Grand Canyon	360000	1120700
2829	Skylight Cave	AZ	Coconino	QA	Grand Canyon	360000	1120700
2830	Stevens Cave	AZ	Coconino	QA	Grand Canyon	360000	1120700
2831	Shinumo Creek	AZ	Coconino	QA	Columbine Falls	360000	1135200
2832	Saint Johns 7	AZ	Apache	QA	Saint Johns North	343000	1091500
2833	Sambrito Village	NM	San Juan	QA	Bancos Mesa NW	365200	1072200
2834	Muskox Cave	NM	Eddy	QA	Serpentine Bends	320700	1043000
2835	Organ-Hendricks Cave	WV	Greenbrier	E	Ronceverte	374302	802614
2836	Wolcottville Muskox	IN	Lagrange	QA	Wolcottville	413000	851500
2837	South Temple <i>Symbos</i>	UT	Salt Lake	QP	Salt Lake City North	404500	1115200
2838	Santaquin Muskox	UT	Utah	QA	Santaquin	395200	1114500
2839	Whitefish Dunes	WI	Door	QA	Chamber's Island	450000	870700
2840	Rock Island	WI	Door	E	Washington Island	452432	864940
2841	Vossburg	MN	Faribault	QA	Winnebago	434500	940700
2842	Big Slough	MN	Murray	QA	Slayton	435200	954500
2843	47LC45	WI	La Crosse	QC	La Crosse	434500	910700
2844	47LC44	WI	La Crosse	QC	La Crosse	434500	910700

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2845	47LC43	WI	La Crosse	QC	La Crosse	434500	910700
2846	Sand Lake	WI	La Crosse	QC	La Crosse	434500	910700
2847	Tremaine	WI	La Crosse	QC	La Crosse	434500	910700
2848	47LC185	WI	La Crosse	QC	La Crosse	434500	910700
2849	24CA287	MT	Cascade	QA	NW Great Falls	473000	1111500
2850	Red Rock Springs	MT	Beaverhead	QA	Red Rock	445200	1124500
2851	Perkins Cave	MO	Camden	QA	Stoutland	374500	923000
2852	Carroll Cave	MO	Camden	QA	Stoutland	374500	923000
2853	Licking County <i>Cervalces</i>	OH	Licking	QC	Fredonia	400700	823000
2854	Hartville <i>Cervalces</i>	OH	Stark	QA	Hartville	405200	811500
2855	Wild Cat Swamp	OH	Union	QA	Marysville	400700	831500
2856	Youngstown Musko	OH	Mahoning	QA	Youngstown	410000	803700
2857	Coulter's Gravel Pit	OH	Butler	QA	Oxford	393000	843700
2858	Foster Musko	OH	Warren	QP	Mason	391500	841500
2859	Hamilton Musko	OH	Hamilton	QP	Hooven	390700	844500
2860	Carroll Creek	TX	Donley	QA	Clarendon	345200	1005200
2861	Bobcat Cave	VA	Bath	QC	Warm Springs	380000	793500
2862	Lewis Mastodon	IN	Wabash	QP	North Manchester North	410000	854500
2863	Huppert Farm	IN	Pulaski	QA	Medaryville	410000	865200
2864	PM 24880 <i>Arctodus</i>	IN	Fulton	QA	Rochester	410000	860700
2865	Minim Island	SC	Georgetown	QA	Georgetown South	331500	791500
2866	Money's Bend	AL	Cherokee	QA	Gaylesville	341500	853000
2867	Harris Neck Airfield	GA	McIntosh	QA	Shellman Bluff	313000	811500
2868	Table Point	GA	Camden	QA	Harriets Bluff	304500	813000
2869	Wall Ridge	IA	Mills	QP	Pacific Junction	410000	954500
2870	CA-FRE-64	CA	Fresno	QC	Malaga	363700	1193700
2871	Hi Card Ranch	CA	Riverside	QP	Wildomar	333000	1171500
2872	Duck Point	ID	Power	QP	Neeley	423700	1125200
2873	Palisades Reservoir	ID	Bonneville	QP	Palisades Dam	431500	1110700
2874	Long Canyon Saddle Midden	NV	Clark	E	Gass Peak	362900	1151500
2875	South Crest Midden	NV	Clark	E	Gass Peak	362900	1151500

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2876	Schaake Village	WA	Kittitas	QA	Cape Horn SE	470000	1200000
2877	45OK30	WA	Okanogan	QA	Winthrop	482200	1200700
2878	Cedar Cave	WA	Kittitas	QA	Cape Horn SE	470000	1200000
2879	Duck Cave	WA	Grant	QA	Vantage	465200	1195200
2880	Crabtree Cave	WA	Kittitas	QA	Cape Horn SE	470000	1200000
2882	Techumtas Island	OR	Umatilla	QA	Hat Rock	455200	1190700
2883	Wallula	WA	Walla Walla	QA	Wallula	460000	1185200
2884	Arch Cave	NV	White Pine	E	Little Horse Canyon	390700	1140500
2885	Spires SP2	NV	Clark	E	Black Hills	363500	1151800
2886	Eleana Range ER2-7	NV	Nye	E	Tippipah Spring	370718	1161403
2887	Eleana Range ER2-10	NV	Nye	E	Tippipah Spring	370718	1161403
2888	Eleana Range ER2-11r	NV	Nye	E	Tippipah Spring	370718	1161403
2889	Salishan Mesa	WA	Grant	QA	Apple Dale	471500	1195200
2890	Seed Cave	WA	Franklin	QA	Burr Canyon	463000	1183700
2891	Avey's Orchard	WA	Douglas	QA	Wenatchee	472200	1201500
2892	45KLa	WA	Klickitat	QA	Dot	454500	1201500
2893	Sheep Island	WA	Benton	QA	Taylor Canyon	460000	1191500
2894	45GA17	WA	Garfield	QA	Central Ferry	463700	1174500
2895	Yakuina Head	OR	Lincoln	QP	Newport North	443700	1240000
2896	45OK52	WA	Okanogan	QA	Rat Lake	480700	1194500
2897	45DO408	WA	Douglas	QA	Chelan	474500	1200000
2898	35GM91	OR	Gilliam	QC	Igo Butte	451500	1201500
2899	45GR97	WA	Grant	QA	Sieler	470000	1190700
2901	45CH302	WA	Chelan	QA	Wenatchee	472200	1201500
2902	45DO189	WA	Douglas	QA	Alameda Flat	480000	1190700
2903	45WT134	WA	Whitman	QA	Palouse Falls	463700	1180700
2904	Miller	WA	Franklin	QA	Glade	461500	1190000
2905	Toquima Cave	NV	Nye	QA	Kingston	390700	1170000
2906	Butler Ranch Cave	NV	Nye	QA	Butler Ranch	390000	1163000
2907	Jeans Spring Shelter	NV	Nye	QA	Wildcat Canyon	390000	1165200
2908	NY1059	NV	Nye	QA	Northumberland Pass	385200	1164500
2909	Hunts Canyon Shelter	NV	Nye	QA	Belmont East	383000	1164500

Mach. #	Site Name	State	County	Prec.	Quadrangle	Latitude	Longitude
2910	Bradshaw Shelter	NV	Esmeralda	QA	Alkali	374500	1171500
2911	Willow Creek	WA	Whitman	QA	Rattlesnake Canyon	464500	1180000
2912	Triple T Shelter	NV	Nye	QA	Wildcat Canyon	390000	1165200
2913	Council Hall Cave	NV	White Pine	E	Little Horse Canyon	392000	1141000
2914	Ven-100	CA	Ventura	QA	Oxnard	340700	1190700
2915	CA-VEN-168	CA	Ventura	QP	Ventura	341500	1191500
2916	Glen Annie Canyon	CA	Santa Barbara	E	Goleta	342540	1195240
2917	Cathedral Cave	NV	White Pine	QA	Mount Moriah	391500	1140700
2918	Buchanan	IA	Story	QA	Ames West	420000	933700
2919	Rud I	WI	Buffalo	QP	Lookout	442200	913000
2920	Fre-1155	CA	Fresno	QA	Fresno North	364500	1194500
2921	Fre-1154	CA	Fresno	QA	Fresno North	364500	1194500
2922	Fre-633	CA	Fresno	QA	Fresno North	364500	1194500
2923	Fre-632	CA	Fresno	QA	Fresno North	364500	1194500
2924	Ruckers Bottoms	GA	Elbert	QA	Rock Branch	340700	824500
2925	Couper Field	GA	Glynn	QA	Brunswick East	310700	812200
2926	St. Simons Shell Ring	GA	Glynn	QA	Brunswick East	310700	812200
2927	St. Simons Survey	GA	Glynn	QA	Brunswick East	310700	812200
2928	Mixon's Hammock	GA	Charlton	QA	Craven's Island	305200	822200
2929	Cumberland Island	GA	Camden	QA	Harriets Bluff	304500	813000
2930	Crooked River State Park	GA	Camden	QA	Harriets Bluff	304500	813000
2931	Colonel's Island Site 906/926	GA	Camden	QA	Brunswick West	310700	813000
2932	Colonel's Island Site 905	GA	Camden	QA	Brunswick West	310700	813000
2933	Colonel's Island Site 903	GA	Camden	QA	Brunswick West	310700	813000
2934	Colonel's Island Site 913	GA	Camden	QA	Brunswick West	310700	813000
2935	Colonel's Island Site 357	GA	Camden	QA	Brunswick West	310700	813000
2936	Colonel's Island Site 918	GA	Camden	QA	Brunswick West	310700	813000
2937	Little St. Simons Island	GA	Glynn	QA	Darien	311500	812200
2938	Minim Island	SC	Georgetown	QA	Georgetown South	331500	791500
2939	Rabbit Mound	SC	Allendale	QA	Millett	330000	813000
2940	38Ja61	SC	Jasper	QA	Rincon	321500	810700
2941	Lewis	SC	Aiken	QA	Jackson	331500	814500

<b>Mach. #</b>	<b>Site Name</b>	<b>State</b>	<b>County</b>	<b>Prec.</b>	<b>Quadrangle</b>	<b>Latitude</b>	<b>Longitude</b>
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2943	Eureka Landing	AL	Monroe	QA	Flynns Lake	312200	873000
2944	Tukabatchee	AL	Elmore	QA	Wetumpka	323000	860700
2945	Rud II	WI	Buffalo	QP	Lookout	442200	913000

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