

Mammal Collections in the Western Hemisphere

A Survey and Directory of Existing Collections

Mark S. Hafner, William L. Gannon, Jorge Salazar-Bravo,
and Sergio Ticol Alvarez-Castañeda



American Society of Mammalogists

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INTRODUCTION AND HISTORICAL PERSPECTIVE

Throughout its history, the American Society of Mammalogists (ASM) has undertaken periodic assessments of the location, size, composition, and curatorial status of collections of Recent mammals in North America. The first such report, authored by A. Brazier Howell (1923) and published in the *Journal of Mammalogy*, appeared just 4 years after the ASM was founded. Howell (1923:113) stated two principal reasons for conducting his survey of mammal collections:

"The larger museums are relatively sufficient unto themselves as regards research material; but the smaller ones, as well as unattached individuals, are often handicapped by their inability to secure, either by purchase or loan, specimens which they may badly need for investigations. The primary purpose in compiling this list is to indicate possible sources from which such material may be obtained. Another effect which it is hoped the appearance of this list will have is the stimulation of the interest of the small collector, the beginner and the amateur. Few will undervalue the importance of gaining recruits for the study of mammalogy..."

With help from E. W. Nelson of the Bureau of Biological Survey, Howell (1923) identified 37 public and 40 private collections in North America. At that time, almost one-half of all mammal specimens in North America (defined as the United States and Canada) were housed in the United States National Museum of Natural History in Washington, D. C. (by comparison, the United States National Museum of Natural History presently holds ca. 15% of all specimens from North America).

More than 2 decades after Howell's (1923) publication, results of the second survey of collections appeared in the *Journal of Mammalogy* (Doutt et al., 1945). The authors of this report (J. Kenneth Doutt, A. B. Howell, and W. B. Davis) stated the following reasons for conducting their survey (Doutt et al., 1945:231):

"In preparing the list we have followed Howell's [1923] original plan to make it a roster of mammal collectors, as well as collections, and we hope that its effect may be to stimulate interest in the science of mammalogy, especially among young collectors."

By 1945, the mammal-collection resource had expanded to include 297 collections (Fig. 1), most of which contained <500 specimens. Although there was a pronounced trend away from private collections (52% were private collections in 1923, compared with 38% in 1945), the bulk of the mammalian material was still contained in a few, large collections. For example, the United States National Museum of Natural History still held ca. 25% of all mammal specimens in North America. Although Doutt et al. (1945) attempted to include Latin American collections in their survey, they received no replies from Mexican or Central American colleagues, and only a single response from South America (Escuela Agrícola in El Vergel, Angol, Chile). Thus, the Doutt et al. (1945) report, like its predecessor (Howell, 1923), was restricted to the United States and Canada.

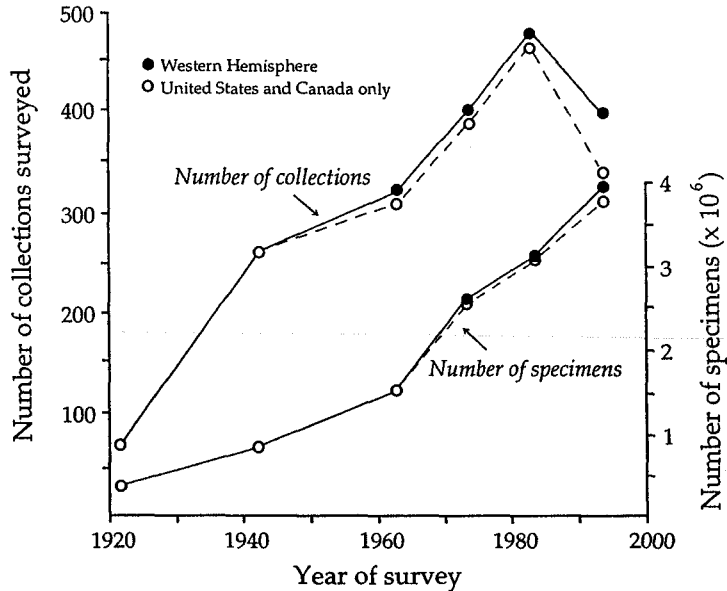


FIG. 1.—Historical trends in number of mammal collections and number of specimens in the collections (1922-1996).

The third survey of mammal collections in North America was conducted by Sydney Anderson, J. Kenneth Doult, and James S. Findley in 1961 (published in the *Journal of Mammalogy* in 1963). By 1960, the ASM was well established as a professional organization, so the goals of the collection survey shifted somewhat from recruitment of new mammalogists to use of collections and documentation of the history of the discipline (Anderson et al., 1963:473):

"It is hoped that the information here compiled will aid students of mammals in using the collections and will, together with the prior surveys, help document the history of North American mammalogy."

The Anderson et al. (1963) report was based on information from 307 collections in the United States and Canada. The trend away from private, or personal, collections continued (only 14% of the collections were considered private in 1963), as did the trend toward decentralization of the resource (for example, by 1963, the United States National Museum of Natural History contained <20% of all specimens in North America). Two Latin American collections were listed in the Anderson et al. (1963) report (Museo Nacional in San José, Costa Rica and Instituto de Biología in Mexico City), and the authors noted that they had information from 12 collections on other continents.

Jerry R. Choate and Hugh H. Genoways conducted the fourth survey of North American mammal collections on behalf of the ASM in 1973. Their report, published in the *Journal of Mammalogy* in 1975, was part of a larger ASM effort (funded, in part, by the National Science Foundation) to plan for future use and protection of systematic resources in mammalogy. The report included information on 388 collections, only 36 of which (9%) were privately held. The time period covered by the Choate and Genoways report (1963-1973) witnessed rapid growth in number of mammal collections in North

America and record growth in terms of number of specimens in those collections (Fig. 1). Again, only two Latin American collections were included in the 1975 listing, both from Mexico.

In 1981, Hugh H. Genoways and Duane A. Schlitter conducted the first worldwide survey of collections of mammals (exclusive of Canada and the United States). This report listed 321 collections from 76 countries, which together held ca. 80% of all mammal specimens outside of the United States and Canada. Importantly, the Genoways and Schlitter (1981) report included the most comprehensive list of Latin American collections to date (51 collections from 14 countries). This list of Latin American collections served as the starting point for the current survey of Central and South American collections.

Mammal collections in North America were again surveyed in 1983 by Terry L. Yates, William R. Barber, and David M. Armstrong. Their report, published as a supplement to Volume 68 of the *Journal of Mammalogy* (1987), contained information on 474 collections, five of which were from Latin America (one from Costa Rica and four from Mexico), and one from the Caribbean (Jamaica). Part of the mission of the Yates et al. (1987:1) survey was to "accumulate data in an electronic database that would allow for ready revision in future years." Unfortunately, the relatively primitive computer technology available in the early 1980s rendered the Yates et al. electronic database of little use in the present survey. However, the Yates et al. (1987) survey was the first to solicit information about computerization of mammal collections in North America, a trend that has increased rapidly over the past decade.

THE PRESENT SURVEY

Purpose.—This survey was designed to: 1) provide a comprehensive directory of collections of Recent mammals in the Western Hemisphere; 2) document the nature and extent of the holdings of these collections; 3) assess current curatorial practices, including those related to information retrieval; 4) compare current data with those reported in previous surveys to identify long-term trends; 5) assess the overall "health" of the resource, and use this information, plus long-term trends, to forecast the probable future of this resource over the next decade. The results of the survey will be available both in hard copy (this publication) and electronically (the ASM home page address is <http://wkuweb1.wku.edu/%7easm/>). It is anticipated that all aspects of future collection surveys, including solicitation of information and distribution of results, will be conducted via the Internet.

Scope.—The present survey contains information gathered between December 1994 and December 1995, with numerous updates to June 1996. Initially, the survey was designed to include only North American collections (i.e., Canada, Mexico, and the United States). However, several members of the Systematic Collections committee had direct research connections and collaborators in Central and South America and were aware of the growing number of collections of mammals that existed south of Mexico. After considerable discussion, the survey team decided that it was now time to expand the survey to include all of the Americas (in keeping with our Society's name: *American Society of Mammalogists*) and that future accreditation of Latin American collections required that they, first, be located and, second, be recognized formally as part of the mammal-collection resource base of the Western Hemisphere. Accordingly, at its 75th-

anniversary meeting in Washington, D. C. (June 1994), the ASM Board of Directors voted to expand the survey to cover all of the Western Hemisphere. Although the coverage of collections in the current report, especially collections in South America, certainly is not exhaustive, we hope that our effort to identify Latin American resources in mammalogy will encourage curators of collections not on the list to contact a member of the survey team so that the next collection survey will be even more comprehensive. Further, we recommend that the next decennial survey of mammal collections, scheduled for 2007, expand to include worldwide coverage. The pioneering global survey by Genoways and Schlitter (1981), plus continued advances in worldwide communication capabilities, should facilitate the work of the next survey team.

Survey questionnaire.—A nine-page questionnaire (a copy of which can be obtained from any of the authors) was sent to all collections listed in Yates et al. (1987) and all Latin American collections listed in Genoways and Schlitter (1981). The questionnaire was modified from that used by Yates et al. (1987) to include additional and updated questions about curatorial practices, collection computerization, and collection accreditation. The questionnaire was available in both English and Spanish.

Response.—In total, 276 of 464 questionnaires mailed to Canadian and United States collections were returned (59% return rate), and 62 of 184 questionnaires mailed to Latin American collections were returned (34% return rate). The high rate of return for Canadian and United States collections was due largely to the efforts of members of the ASM Systematic Collections Committee, each of whom made numerous follow-up contacts to encourage collection curators to return their questionnaires. Of the 51 collections in North America containing $\geq 10,000$ specimens in 1983, all but one responded to the present survey.

The survey team is aware of several Latin American collections that did not respond to the survey, despite repeated attempts by the survey team to solicit a response. The names and addresses of these collections (data from Genoways and Schlitter, 1981; and Péfaur, 1987) are listed in Appendix I. It is hoped that these collections will be included in the next collection survey. Information about several of the Latin American collections was obtained directly from the Sociedad Argentina para el Estudio de los Mamíferos and the Asociación Mexicana de Mastozoología, A. C. We appreciate the assistance of our sister societies in Latin America.

Several collections that were listed as separate collections in previous surveys are now part of other collections. A list of collections that have been integrated into other collections since 1983 is given in Appendix II.

Number and geographic distribution of collections.—Overall, 391 collections are included in this report, of which 329 are from Canada and the United States, and 62 are from Mexico, Central America, and South America (Fig. 2). This represents an apparent 18% reduction in total number of North American collections during the past decade (Fig. 1). This reduction, however, is likely an artifact caused by inclusion of a large number of defunct collections in the Yates et al. (1987) list. For example, in the present report, no collections are listed that reported "no specimens," and collections that failed to respond both to this survey and to the previous survey were considered defunct and dropped from the list (importantly, no collection was dropped without repeated attempts to contact the collection curator by telephone and mail). Thus, the 1987 list, which

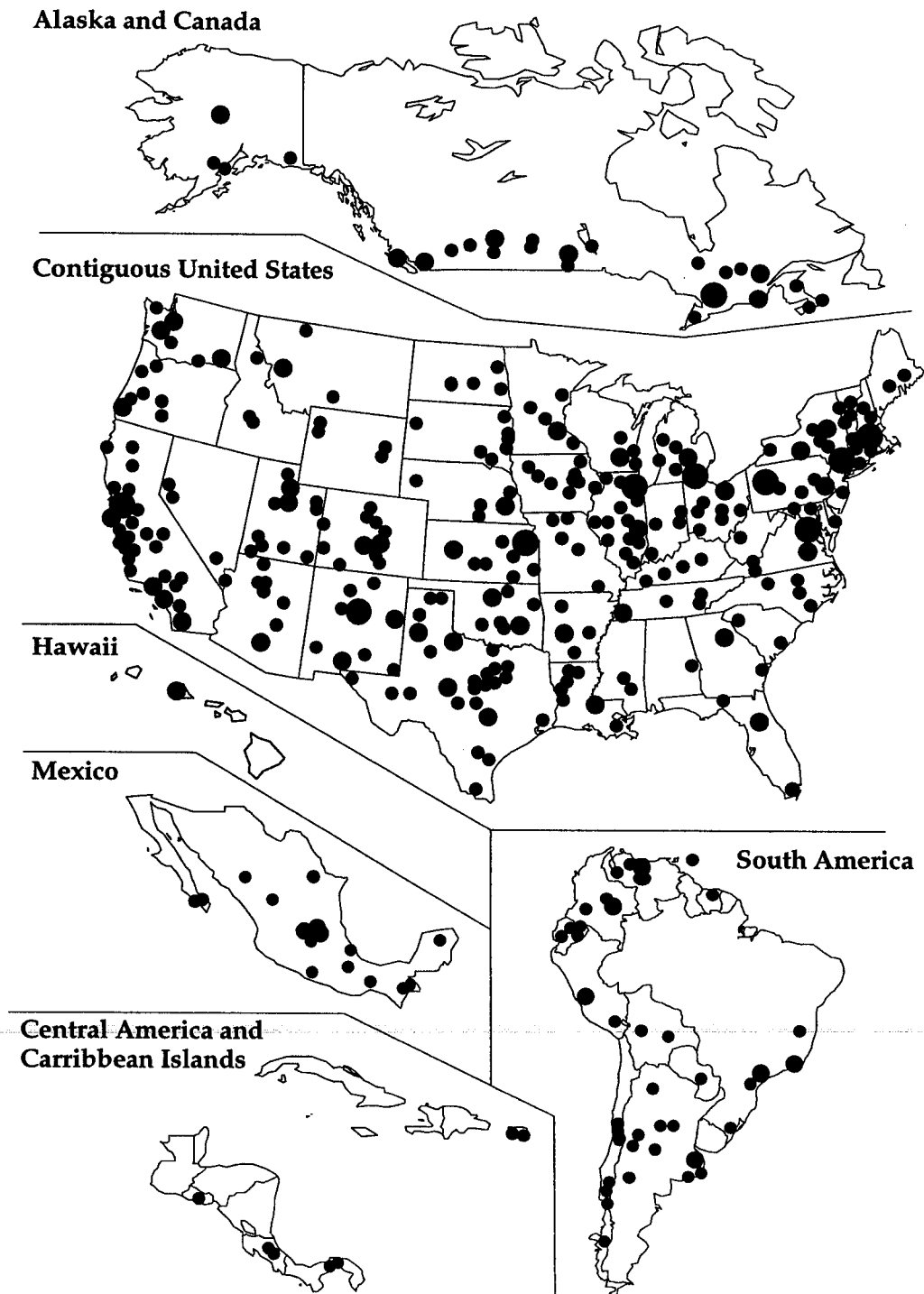


FIG. 2.—Location of mammal collections in the Western Hemisphere. Small dots represent collections with <10,000 specimens, medium dots show collections with 10,000-100,000 specimens, and large dots show location of collections with >100,000 specimens. Maps are drawn to different scales.

included a record 474 collections, may have been an over-estimate of the total number of actual collections of Recent mammals in North America. Nevertheless, it is clear that the long-term trend toward increase in number of mammal collections has either slowed or reversed (Fig. 1). If we assume that the Choate and Genoways (1975) survey also was a slight over-estimate of the number of collections, then it appears that growth of new collections has leveled-off at ca. 350 collections in North America (Canada, United States, and Mexico). Sixty-nine of the 345 North American collections included in the present list responded to the previous survey (Yates et al., 1987), but did not respond to the present survey, despite repeated attempts to contact collection curators by telephone and mail. Although these collections are included in the present directory, it is likely that many of them no longer exist as separate collections. Data reported for these collections were taken directly from Yates et al. (1987).

Number of specimens and their distribution.—The 391 collections included in this report contain a total of 4,194,305 specimens, of which 264,327 (6%) are presently uncatalogued. Collections in Canada and the United States contain a total of 3,806,557 specimens, which is a record number of specimens (Fig. 1), and represents a 21% increase in collection holdings during the past decade. This rate of growth contrasts sharply with the 57% rate of growth observed between 1963 and 1973 (Choate and Genoways, 1975) and the 24% rate of growth between 1973 and 1983 (Yates et al., 1987). However, in terms of absolute number of specimens, the decrease in rate of growth is less dramatic: ca. 900,000 specimens were added to United States and Canadian collections of mammals during 1963-1973 (90,000/year), 600,000 specimens were added during 1973-1983 (60,000/year), and 670,000 during 1983-1995 (56,000/year).

Of the 340 collections in Canada, United States, and Mexico for which size of collection is known, 150 (44%) contain <1,000 specimens, 132 (39%) contain 1,000-10,000 specimens, 49 (14%) contain 10,000-100,000 specimens, and 9 (3%) contain >100,000 specimens. Despite lack of growth in terms of overall number of collections during the past decade, the number of collections with $\geq 10,000$ specimens has increased from 51 (Yates et al., 1987) to 58 collections at present. Most of these larger collections are located in the United States, where they are fairly evenly distributed throughout the nation (Fig. 2).

The 20 largest collections in the Western Hemisphere (Table 1) together contain 61% of all mammal specimens in the Western Hemisphere. The 10 largest collections, all of which are located in North America, together hold a total of 49.4% of North American specimens. This is a slight decrease compared to the 1987 value (53.1%), and is well below the 1975 value (57.1%). These data indicate that the reduced rate of growth in terms of number of collections in North America (Fig. 1) is not being accompanied by a "clumping" of specimens into the larger collections. In fact, the largest collection in the Western Hemisphere, the United States National Museum of Natural History, presently contains proportionally fewer specimens (15% of all specimens in North America) than it did in 1983 (17.5%) and 1973 (18.7%).

Taxonomic and geographic representation.—More than one-half (52.1%) of all specimens contained in collections of mammals in the Western Hemisphere are representatives of the order Rodentia (Fig. 3). This taxonomic bias was expected, considering that rodents are common, easy to collect and prepare, and relatively inexpensive to store because of their small size. Members of the orders Carnivora (14%), Chiroptera (9.3%), and Insectivora (8.4%) are fairly common in collections, as are

TABLE 1.—Specimen holdings in the 20 largest mammal collections in the Western Hemisphere.

Collection	Number of specimens 1995	Number of specimens 1975	Mean growth per year 1975-1995	Number of holotypes 1975/1995
1. United States National Museum of Natural History (USNM)	585,000	475,000	5,500	3,000/3,336
2. American Museum of Natural History (AMNH)	277,480	240,000	1,874	950/1,062
3. University of California, Berkeley, Museum of Vertebrate Zoology (MVZ)	187,500	144,000	2,175	330/357
4. Field Museum (FMNH)	156,400	110,000	2,283	484/414
5. University of Kansas, Museum of Natural History (KU)	156,000	132,000	1,200	118/129
6. University of Michigan, Museum of Zoology (UMMZ)	138,517	111,800	1,336	122/122
7. University of New Mexico, Museum of Southwestern Biology (MSB)	116,000	35,000	4,050	1/5 ^a
8. Carnegie Museum of Natural History (CM)	113,994	55,000	2,950	30/31
9. Royal Ontario Museum (ROM)	100,000	68,360	1,582	8/13
10. Natural History Museum of Los Angeles County (LACM)	97,000	43,000	2,700	22/22
11. Museu Nacional, Rio de Janeiro, Brazil (MN)	90,000	--	--	--/b
12. Harvard University, Museum of Comparative Zoology (MCZ)	72,000	69,000	150	315/322
13. The Museum, Texas Tech University (TTU)	70,000	23,000	2,350	6/13
14. University of Illinois, Museum of Natural History (UIMNH)	61,063	48,701	618	20/20
15. Texas A&M University, Texas Cooperative Wildlife Collection (TCWC)	56,500	27,000	1,475	39/39
16. Canadian Museum of Nature (CMN)	53,000	42,500	525	61/58
17. The Science Museum of Minnesota (SMM)	45,513 ^c	10,000	1,775	0/0
18. University of Washington, Burke Memorial Washington State Museum (UWBM)	40,000	7,400	1,630	0/1
19. Escuela Nacional de Ciencias Biologicas (ENCB)	38,400	--	--	--/3
20. Louisiana State University, Museum of Natural Science (LSUMZ)	37,945	18,518	971	23/23

^a MSB also holds 73 symbiotypes (host specimens from which a parasite holotype is collected—see Frey et al., 1992).

^b MN contains several holotype specimens (number not specified)

^c SMM specimens are not catalogued

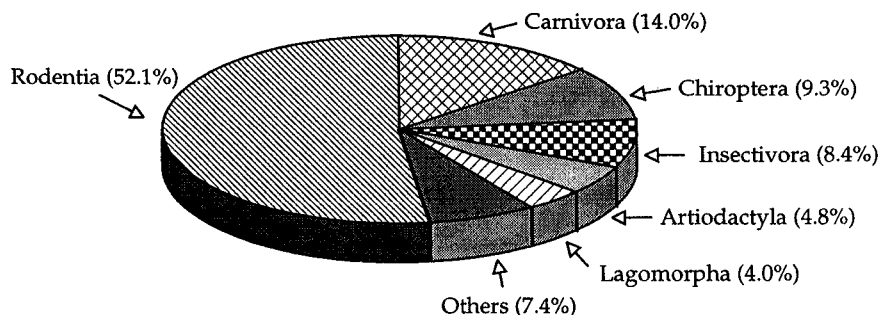


FIG. 3.—Taxonomic representation of mammal specimens in collections of the Western Hemisphere.

artiodactyls (4.8%) and lagomorphs (4%). Other orders are only poorly represented, especially when viewed as a percentage of the total number of specimens in all collections. It should be noted, however, that certain collections have outstanding holdings of specimens in orders not listed above; these special holdings are usually mentioned in the individual listing for that collection (see Directory of Collections).

About 82% of all specimens in collections were collected in the United States (Fig. 4). Only 8% of the specimens are from Canada, 3% are from Central and South America, and 2% are from Mexico.

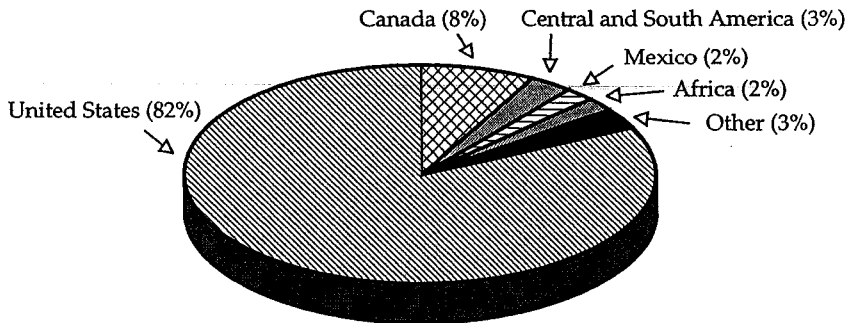


FIG. 4.—Geographic representation of mammal specimens in collections of the Western Hemisphere.

Special preparations and ancillary collections.—A large number of respondents reported that their collections contain special preparations, including fluid-preserved specimens, cleared-and-stained specimens, taxidermy mounts, parasites, specimens of known age, and specimens of domestic mammals. Significant holdings of special preparations are listed in the individual entries in the collection directory. Despite the fact that fewer individual specimens were added to collections during the past decade than in previous decades (Fig. 1), the total number of special preparations in collections increased dramatically since the previous survey (Table 2). In particular, collections of frozen tissues and mammalian parasites experienced explosive growth during the past decade. Of special concern is the growing number of taxidermy specimens (including trophy heads) accumulating in mammal collections in the Western Hemisphere. Although these specimens are valuable (in many cases, irreplaceable) and certainly are useful for exhibit purposes, they are expensive to store because of their large size, and they have limited research and teaching value. During the next decade, collection managers will need to grapple with the issue of how best to preserve and use taxidermy specimens.

Certain kinds of ancillary data, such as photographs and tape recordings of mammals, are not maintained routinely in most mammal collections. For example, only 21% of collections in the United States reported that they maintain photographs of specimens, and only 12% maintain photographs of habitats. Photomicrographs (3%), tape recordings (3%), motion pictures and videos (8%), and X-ray photographs (6%) are even rarer in collections of mammals in the United States. In some instances (e.g., tape recordings, tissues, and parasites), these materials routinely are deposited in specialty collections not associated directly with the traditional mammal collection (Gannon and Foster, 1996); hence, these materials exist, but are no longer reported in the survey response from the mammal collection.

TABLE 2.—*Special preparations contained in mammal collections in the Western Hemisphere.*

Special preparation	Number of specimens reported (this survey)	Number of specimens reported (1987 survey)	Net growth
Fluid-preserved specimens	651,644	226,472	188% increase
Cleared-and-stained specimens	2,997	326	819% increase
Frozen tissues	473,614	21,300	2,123% increase
Taxidermy specimens	30,093	5,243	474% increase
Mammalian parasites	24,943	1,242	1,908% increase
Domestic mammals	6,132	3,531	74% increase
Specimens of known age	39,051	11,715	233% increase

Frozen-tissue collections.—Increased use of molecular techniques has stimulated dramatic growth of frozen-tissue collections during the past decade (Dessauer et al., 1996; Table 2). Mammal collections in the Western Hemisphere currently maintain frozen tissues representing ca. 474,000 individual mammals. Nearly all of these tissue specimens are represented by traditional voucher specimens, which means that ca. 11% of all specimens in the traditional collections are represented by frozen tissues. Significant holdings of frozen tissues are mentioned in the individual listings in the collection directory. Especially large holdings of frozen tissues are contained in the following collections: MSB (85,000 specimens), TTU (70,000), UAM (17,000), CM (14,000), FMNH (10,000), MVZ (10,000), ROM (8,300), and LSUMZ (5,300). A worldwide directory of frozen-tissue collections is available in Dessauer et al. (1996).

Holotypes.—Mammal collections in the Western Hemisphere hold a total of 6,625 holotype specimens that are dispersed among 52 collections. North American collections currently hold 6,508 holotypes, which represents a 5% increase in number of holotypes since the last survey (Yates et al., 1987). About 51% of all holotype specimens in North America are contained in the USNM collection (down from 53% in 1987), and 90% of all holotypes in the Western Hemisphere are contained in the 20 largest collections (Table 1). Appendix III lists published catalogues of holotype specimens of mammals, and Appendix IV lists general publication series associated directly or indirectly with collections of mammals.

Use of collections.—When asked to identify the major purpose of their collection, 44% of the respondents listed teaching and education and 43% listed research as the primary goal of their collection (Fig. 5a). In nearly all instances, those who listed research as the primary goal of their collection, listed teaching and education as the secondary goal. When asked how their collections actually were used in a typical year, a larger percentage of respondents (58%) reported heavy emphasis on teaching and education, and only 26% reported that the major use of their collection was for research purposes (Fig. 5b).

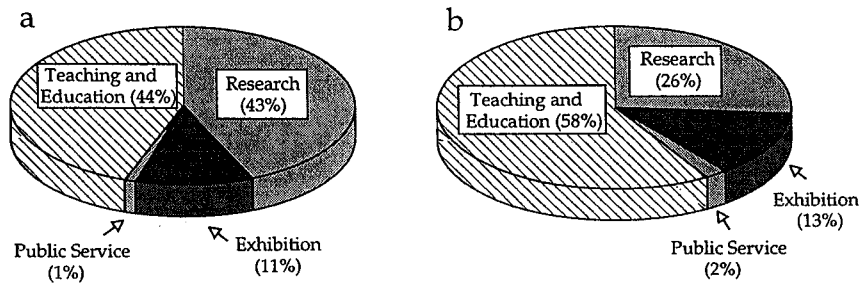


FIG. 5.—a) Primary goals of North American collections of mammals. b) Actual use of the collections.

Sources of support.—Nearly all collections surveyed reported multiple sources of support (Fig. 6). More than one-half (58%) of all mammal collections in the United States are supported directly by state government or, more commonly, through state-supported colleges and universities. A large number of collections depend on private donations, endowments, and federal or state grants and contracts for additional support. Although comparative data were not available from the previous survey, our impression is that sources of support have remained fairly constant during the past decade. The close association of many collections with colleges and universities underscores the immense educational value of this resource.

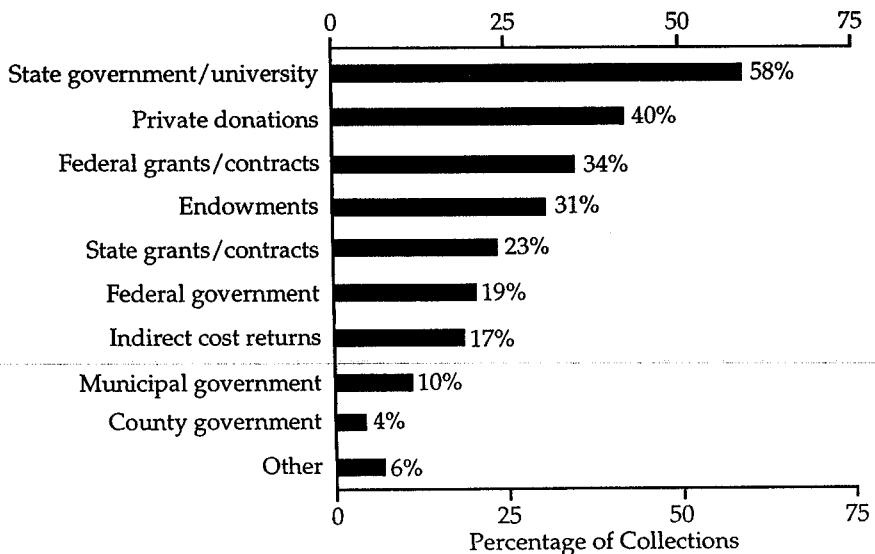


FIG. 6.—Sources of support for collections of mammals in the United States. The category "other" includes membership dues, gift shop revenues, admission charges, and similar sources of income. Percentages total >100% because most collections are supported by multiple sources.

Personnel.—Table 3 provides an overview of current support personnel in collections of mammals in the United States. About one-half of the collections are headed by a full- or part-time curator, most of whom are paid for their duties. One-quarter of the collections employ collection managers, nearly all of whom are paid for their work. About one-third of the collections employ paid hourly workers (usually students), and roughly the same percentage of collections rely on part-time volunteer labor. Other support positions are relatively uncommon in collections in the United States (Table 3). Although similar data were not reported for the previous survey (Yates et al., 1987), our impression is that persons with the formal title "curator" are becoming less common in mammal collections in the United States, whereas an increasing number of persons are being employed as collection managers. The potential ramifications of this trend are discussed by Cato (1991) and in the section of this report titled "Health of the resource."

TABLE 3.—*Support personnel in collections in the United States.*

Position	Percentage of collections with position		Percentage paid
	Full time	Part time	
Curator	29	36	76
Assistant/Associate Curator	4	6	79
Collection Manager	17	9	95
Curatorial Assistant	2	12	8
Technician	5	9	97
Research Assistant	2	6	72
Graduate Student	3	18	51
Preparator	2	11	72
Hourly worker	2	30	94
Secretarial/Clerical	4	8	96
Conservator	1	1	100
Registrar	4	1	100
Volunteer	1	32	0

Curatorial standards and policies.—About 68% of all North American collections have standardized curatorial practices and policies. This value is unchanged from that reported in 1983 (Yates et al., 1987). However, in nearly two-thirds (66%) of these collections, curatorial practices and policies are now available in written form. This is a dramatic and welcome increase since the last survey, when only 32% of the collections reported that they had written policy documents.

Increased use of molecular techniques has caused an increase in requests for tissue samples taken directly from study skins (Engstrom et al., in press). Although the size of the tissue sample is typically small, this practice results in permanent damage to the skin. Consequently, curators should be judicious in granting permission for consumptive sampling of specimens in their care. Currently, only 14% of North American collections have written policies pertaining to consumptive sampling of their specimens. The ASM Systematic Collections committee has produced a document titled "Recommended policy for consumptive sampling of mammal specimens," which can be modified for use in all collections that currently lack a written policy in this important area.

Original field notes and collectors' catalogues are maintained routinely in ca. 60% of North American collections (up from 55% in 1983), and nearly one-half of the collections (43%) maintain files of scientific collecting permits and related documents. This value (43%) is considerably larger than that reported in 1983 (31%), suggesting that collection managers are becoming increasingly aware of the importance of legal documentation of materials in their collections.

Catalogues.—About 80% of all North American collections maintain some form of collection catalogue. The percentage of North American collections maintaining written catalogues of their holdings has changed little since the previous collection survey (Yates et al., 1987). Presently, 67% of the collections maintain written numeric catalogues, 43% have written accession catalogues, 38% maintain written taxonomic catalogues, and 27% have written geographic catalogues.

An increasing number of collections have produced (or are in the process of producing) electronic (computerized) catalogues of their collection holdings (see following section on collection computerization). For example, 39% of collections in North America have computerized numeric catalogues, 30% have computerized taxonomic catalogues, 23% have computerized accession catalogues, and 21% have computerized geographic catalogues.

Only 61% of North American collections that maintain catalogues (whether written or computerized) also maintain some form of back-up system in the event of loss of the original catalogue or computer file. As more and more collections develop computerized catalogues, the frequency of back-up systems also should increase because of the ease of duplicating computer files.

Computerization.—Exactly one-half of all collections in Canada and the United States are computerized to some extent (up from 34% in 1983), and 37% of Latin American collections are wholly or partially computerized. Of the collections using computers for database management, 27% are completely computerized (i.e., all specimens are entered into the database) and 43% are at least one-half computerized. More than 30 different software applications are used to manage mammal-collection databases on a variety of computer platforms (e.g., DOS, Macintosh®, UNIX). About 40% of the computerized collections use 80486 IBM® (or IBM clone) computers running either dBase® or spreadsheet-type software (e.g., Lotus®, Excel®, or Paradox®). Some collections reported that they have migrated (or plan to migrate) to a UNIX-based system. It appears that most collections are using a standard language (SQL), which is important if the future trend in mammalogy is toward a unified system of collection databases accessible on one network, such as the World Wide Web (WWW). Use of Microsoft® applications has increased dramatically since the previous collection survey (Yates et al., 1987). It appears that many of the more active collections with large databases intend to migrate to more complex and encompassing applications (e.g., Oracle®), which allow use of a single database with simultaneous access by collection staff, collection users, and remote (WWW) users, all with limited (read only) access, but immediate database updates.

Protection of collections.—Table 4 lists the percentage of North American collections that are protected against various kinds of potential damage to specimens. As is obvious from Table 4, there has been a dramatic increase since 1983 in the percentage of collections protected against all listed sources of damage. Despite the generally high level

of protection against the more common kinds of damage to specimens (e.g., fire and insect damage), only 13% of the collections have written disaster plans.

TABLE 4.—Percentage of North American collections protected against various kinds of potential damage to specimens. Previous survey results are from Yates et al. (1987).

Potential source of damage	Percentage of collections protected		
	This survey (1995)	Previous survey (1983)	Net change
Fire	83	21	+62%
Temperature fluctuation	58	16	+42%
Humidity fluctuation	43	13	+30%
Water damage	42	16	+26%
Theft and vandalism	80	22	+58%
Animal (insect) pests	88	24	+64%
Mold and mildew	36	(not asked)	—

About 75% of all collections reported that they routinely monitor for presence of insects or insect damage. Use of chemical fumigants to protect against insect damage has declined from 63% of the collections in 1983 to 47% in 1995. In contrast, use of Integrated Pest Management practices (Albert and Albert, 1989) has increased from 18% of the collections in 1983 to 51% in 1995. Integrated Pest Management (IPM) is a program that minimizes use of pesticides for insect control. This approach targets the root of museum pest problems by concentrating on exclusion of pests from the premises altogether. IPM procedures are simple, cost effective, and a safe means of long-term control of pest infestations. Most IPM programs use the following protocol: 1) inspect for presence of pests; 2) deploy non-chemical control measures (usually sticky traps); 3) evaluate results; 4) if necessary, deploy chemical measures in a carefully specified manner; 5) re-evaluate results; 6) establish an ongoing monitoring program.

Respondents who use chemicals for pest control reported that they use of a wide variety of chemical fumigants, including ethylene dichloride, arsenic, ammonia vapor, carbon disulfide, carbon tetrachloride, carbon dioxide gas, paradichlorobenzene (moth balls and crystals), pyrethrins, vapona, and others. Many reported that they use a combination of chemical fumigants. Other forms of pest management included professional treatment of the collection area (or the entire building), freezing of incoming and outgoing specimens, and use of various kinds of "bug traps" (e.g., "bug zappers" and sticky traps).

Loans.—About 75% of collections in Canada and the United States and 39% of Latin American collections reported that they processed loans of mammal specimens in the 2 years prior to the survey (1993-1994). This value is considerably larger than that reported in the previous survey (Yates et al., 1987), when only 30% of North American collections reported loan activity. Although many more collections in Canada and the United States were involved in loan activity during 1993-1994, the actual number of loans was smaller (2,899 loans in 1993-1994, versus 3,828 loans in 1982-1983). Thus, the average number of loans per collection (considering only those collections that reported loan activity) was much smaller in 1993-1994 (11 loans/collection) than in 1982-1983 (26.4 loans/collection). The total number of specimens loaned by North American collections during 1993-1994

(37,181 specimens) was also lower than the total number of specimens loaned in 1982-1983 (ca. 48,000 specimens). Not surprisingly, most of the loan activity during 1993-1994 (81% of loans and 83% of specimens loaned) was concentrated in the 59 collections with holdings of >10,000 specimens.

Accreditation.—The ASM Systematic Collections committee is responsible for inspecting and accrediting collections of Recent mammals. The standards used to evaluate those collections are given in Appendix V. These standards were established to protect the collection resource, and the accreditation process was established to assist administrators of collections to meet the standards. Ideally, voucher specimens generated by researchers should be deposited only in accredited collections, where they will be curated properly and made available to the scientific community. Another advantage of accreditation is that the process, itself, can be influential in promoting the status of the collection under review, especially within one's own institution. Often, simple corrective measures recommended by the accreditation team can lead to vast improvements in operation of the collection and specimen care.

In 1995, the ASM Systematic Collections Committee announced a new accreditation procedure (termed "Initial Accreditation") through which Latin American collections could receive preliminary accreditation without a site visit by a member of the Systematic Collections Committee. This procedure was designed to circumvent the costs and logistical problems usually involved in site visits so as to accelerate the pace at which Latin American collections are accredited. Also, international recognition of a collection often assists the collection in terms of greater institutional support. Finally, recognition of Latin American collections makes them more visible for research use, both in the sense of specimen loans and deposition of voucher specimens. Procedures for Initial Accreditation differ from those for regular accreditation and are detailed in the *Journal of Mammalogy* (76:1302-1303, 1995).

Currently, there are 64 accredited collections (Appendix VI), and 60 additional collections have requested accreditation. Although this long waiting list will keep the Systematic Collections Committee busy well into the future, it is unfortunate that the remaining 264 collections have not expressed interest in accreditation. The administrators of all mammal collections, regardless of the size or location of the collection, should be aware of the many advantages of ASM accreditation, and all should attempt to meet or exceed the basic curatorial standards deemed acceptable by the ASM for proper long-term storage of specimens.

HEALTH OF THE RESOURCE

Our close examination of the survey data, coupled with verbal and written responses from people in charge of collections, leave us with the impression that mammal collections in the Western Hemisphere generally are in good health. This is not to say that all collections are in good condition, or that there is not room for improvement in most collections. However, the survey revealed several positive signs—plus a few causes for concern—about the future of mammal collections in the Western Hemisphere.

As discussed earlier, the apparent decline in number of collections (Fig. 1) is most likely an artifact of different survey methods in this and prior surveys. However, it is

clear that new mammal collections are not appearing as rapidly as they did in the past, which we interpret as normal saturation (i.e., there are a limited number of institutions that can and will support collections), rather than decline of the resource base. Merger of several small and potentially vulnerable collections into a single larger collection, and donation of small collections to larger institutions also has contributed to this reduction in number of individual collections. However, these consolidations have strengthened the resource by safeguarding a larger number of specimens in secure repositories.

The questionnaire asked survey respondents if they expected any changes in their collection during the next 10 years. About one-half responded "no." Of those who responded "yes," ca. 80% gave generally optimistic responses about the future, and 20% gave neutral or negative responses. Included in the neutral responses were 8% of the respondents who stated that their collections probably would be merged with other small collections to form a larger unit, or that their collections would be donated to another institution. Most of the negative responses (5% of all respondents) came from curators who were retiring and were concerned about the future of their collections. In most instances, there was no guarantee that the curator would be replaced with a collection-oriented person. Finally, a small percentage of the respondents (3%) reported that their collection was in a state of decline.

Of the optimistic responses, 32% reported plans for general improvement of their facility, and 22% reported plans for a new building. An additional 16% indicated plans to hire a new curator or other collection personnel, and 14% said that activity in their collection was on the upswing. Finally, 7% of the respondents reported that increased funds for collection activities were either confirmed or anticipated in the next 10 years.

Although persons with the formal title of "curator" seem to be less common in collections than in previous decades, there has been a definite increase in the number of persons with the title "collection manager." We see this as a positive trend for mammal collections because essentially all collection managers have hands-on duties in their collections, whereas many curators have only administrative responsibility over their collection. Collection managers tend to have fewer duties outside of their curatorial obligations, which means that they have time to keep abreast of modern collection-management techniques, including Integrated Pest Management. This may explain the dramatic increase in use of IPM during the past 10 years, as well as the general increase in all other kinds of collection protection (Table 4).

During the next decade, we recommend that the ASM Systematic Collections committee take the following steps to further safeguard this important resource. First, we recommend that the committee contact those curators who indicated that their collections are at risk, and develop a plan to protect (or transfer) specimens in these collections. Second, we recommend that the committee increase its accreditation activities, and encourage more Latin American collections to use the Initial Accreditation procedure described above. Third, we recommend that the committee consider how best to handle the increasing number of taxidermy specimens in mammal collections. A carefully considered recommendation from the ASM would be extremely helpful to the many curators faced with growing numbers of taxidermy mounts in their care. Finally, we recommend that the committee work with collection curators to reduce or eliminate duplicated collection acronyms (see Appendix VII). Unique collection acronyms will help maintain order and consistency in the taxonomic literature pertaining to mammals.

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Directory of Collections of Mammals in the Western Hemisphere

ARGENTINA

Instituto Argentino de Investigaciones de las Zonas Aridas (IADIZA-CM)

Colección Mastozoológica

Unidad de Zoología y Ecología Animal

Casilla de Correo 507,

5500 Mendoza, Argentina

5,000 specimens; especially rodents and xenarthrans from the Monte Biome and the Argentinean Patagonia; additional contacts: Virgilio Roig (ntcrycit@arriba.edu.ar) and Ana M. Scollo

Contact: Ricardo Ojeda

Voice: 54-61-287995

FAX: 54-61-287370

E-mail: Rojeda@planet.losandes.com.ar

Museo Argentino de Ciencias Naturales "Bernardino Rivadavia" (MACN)

Colección de Mamíferos

Avenida Angel Gallardo 470

Casilla de Correo 220, suc. 5

1405 Buenos Aires, Argentina

20,566 specimens; primarily mammals of Argentina, however other South American countries also are represented; additional contact: Olga Vaccaro

Contact: Martha J. Piantanida

Voice: 54-1-9826595

FAX: 54-1-9824494

E-mail: postmaster@mastoz.edu.ar

Museo de Ciencias Naturales y Antropológicas "Prof. Juan C. Moyano" (MJCM)

Colección de Mamíferos

Plaza de la Independencia

5500 Mendoza, Argentina

597 specimens; primarily mammals from northcentral Argentina

Contact: Kett Bohm de Saurina

Museo de Ciencias Naturales y Antropológicas "Prof. A. Serrano" (CMCNA)

Colección Mastozoológica

Avenida Rivadavia 462

3100 Entre Rios, Argentina

210 specimens; exclusively mammals from Argentina

Contact: Juana Maria Barzanti

Museo Florentino Ameghino, Colección de Mastozoológica (MFA-ZV-M)

Sección Zoología de Vertebrados

Primera Junta 2859 - Primer Piso

3000 Santa Fé, Argentina

615 specimens; primarily mammals of Argentina; additional contact: Carlos Virasoro

Contact: Edelvita Fioramonti

Voice and FAX: 54-42-523843

Museo de Mar del Plata (MMP)

Mastozoológica

Avenida Libertad 3000, Plaza España

Mar del Plata

7600 Buenos Aires, Argentina

3,000 specimens; mainly mammals of Argentina, but also from Uruguay and Brazil

Contact: Orlando A. Scaglia

Museo de La Plata (MLP)

Colección de Mamíferos

Departamento Científico, Zoología Vertebrados

Museo de La Plata

Paseo del Bosque

1900 La Plata, Argentina

2,000 specimens; mostly xenarthrans and rodents from the Pampean and Patagonian regions of Argentina; additional contact: Carlos Galliari (cailo@ilpla.edu.ar)

Contact: Diego Verzi

Voice: 54-21-257744

FAX: 54-21-257527

E-mail: museo@isis.unlp.edu.ar

Museo Provincial de Historia Natural de La Pampa (RVP)

Colección de Mamíferos
Pellegrini 180, Santa Rosa
6300 La Pampa, Argentina

Contact: Sergio Tiranti
Voice: 54-95-422693

220 specimens; mostly rodents from the Province of La Pampa in westcentral Argentina; collection contains several chromosome slides

Universidad Nacional de Rio Cuarto, Colección de Mamíferos (CUNRC)

Estafeta Postal 9
Rio Cuarto
5800 Córdoba, Argentina
2,100 specimens; mostly rodents from central Argentina

Contact: Jaime J. Polop
Voice: 54-586-33859
FAX: 54-586-45980
E-mail: jpolop@unrccc.edu.ar

Universidad Nacional de Tucumán, Colección de Mamíferos Lillo (CML)

Facultad de Ciencias Naturales e Instituto Miguel Lillo
Universidad Nacional de Tucumán
Miguel Lillo 205
4000 Tucumán, Argentina

Contact: Rubén Barquez
Voice: 54-81-210944
FAX: 54-81-210944

6,268 specimens; primarily mammals of northern Argentina; other Latin American countries also are represented

BOLIVIA**Colección Boliviana de Fauna (CBF)**

Mastozoología
Calle 26, Cota-Cota
Casilla de Correo 8706
La Paz, Bolivia

Contact: Teresa Tarifa S.
Voice: 591-2-795364
FAX: 591-2-770876
E-mail: ttarifa@cbf.bo

3,765 specimens; exclusively mammals of Bolivia; additional contact: Nuria Bernal (e-mail: nbernal@cbf.bo); collection includes specimens formerly housed at the Museo Nacional de Historia Natural de Bolivia and the Colección de Vertebrados, Instituto de Ecología, Universidad Mayor de San Andrés

Museo de Historia Natural "Noel Kempff Mercado" (MNK)

Sección de Mastozoología
Avenida Irala 565
Casilla de Correo 702
Santa Cruz de la Sierra, Bolivia

Contact: Pamela Rebolledo
Voice and FAX: 591-3-366574
E-mail: museo-nk@uagrm.bo

2,000 specimens; collection emphasizes mammals of Santa Cruz Department; additional contact: Aida Torrico

BRAZIL**Museu de Biologia Mello Leitão (MBML)**

29.650 Santa Teresa
Espírito Santo, Brasil

Contact: Sergio Lucena Mendes
Voice and FAX: 55-27-259-1182

2,100 specimens; emphasis on small mammals of Brazil; additional contact: Devanir Loss

Museu de Ciências Naturais (MCN)

Coleção de Mastozoologia
 Fundação Zoobotânica do Rio Grande do Sul
 Avenida Salvador França 1427
 90.690 Porto Alegre
 Rio Grande do Sul, Brasil

Contact: Jorge Ferigolo
 Voice: 55-51-336-1511
 FAX: 55-51-336-1778

2,962 specimens; emphasis on mammals of the states of Rio Grande do Sul and Ceará; additional contact: Cesar Jaeger Drehmer

Museu de Historia Natural "Capão de Imbuia" (MHNCI)

Seção de Mastozoologia
 Rua Benedito Conceição 407
 82.810-080 Curitiba
 Parana, Brasil

Contact: Vanessa Guerra Persson

3,000 specimens; collection emphasizes rodents and bats of the state of Parana; additional contact: Michel Miretzki

Universidade Federal do Rio de Janeiro, Museu Nacional (MN)

Coleção de Mamíferos
 Museo Nacional
 Universidade Federal do Rio de Janeiro
 Quinta de Boa Vista, 20.940-040
 Rio de Janeiro, Brasil

Contact: Luiz Flamarion de Oliveira
 Voice: 55-21-264-8262
 FAX: 55-21-254-4320
 E-mail: LFBOMN@omega.lncc.br

90,000 specimens; collection includes several holotypes; emphasis on Brazilian mammals, especially rodents and primates; additional contact: Joao Alves de Oliveira (jaoliv@omega.lncc.br)

Universidade de Sao Paulo, Museu de Zoologia (MZUSP)

Seção de Mamíferos
 Caixa Postal 7172, 01064-970
 São Paulo, Brasil

Contact: Heraldo A. Britski
 Voice: 55-11-274-2455
 FAX: 55-11-274-3690

28,300 specimens; collection emphasizes Brazilian species

CANADA

ALBERTA

Banff Park Museum (BNP)

Banff Park Museum Collection
 93 Banff Avenue
 P. O. Box 900
 Banff, Alberta T0L 0C0, Canada

Contact: Maureen Peniuk
 Voice: 403-762-1557 or 762-1558
 FAX: 403-762-3380
 E-mail: hsmanager@pksbnp.dots.doe.ca

118 specimens; primarily taxidermy mounts; regional emphasis (Rocky Mountains National Park); additional contact: Michael Gair (voice: 403-762-1573; e-mail: collections@pksbnp.dots.doe.ca)

Provincial Museum of Alberta (PMA)

12845 - 102 Avenue
 Edmonton, Alberta T5N 0M6, Canada

Contact: Harold N. Bryant
 Voice: 403-453-9186
 FAX: 403-454-6629

11,074 specimens; regional emphasis (Alberta); additional contacts: Maggie Ballantyne and Margot Brunn (voice: 403-453-9191 and 403-453-9169); ACCREDITED BY ASM (1985)

University of Alberta, Museum of Zoology (UAMZ)

Mammal Collection

University of Alberta

Edmonton, Alberta T6G 2E9, Canada

8,000 specimens at last report (Yates et al., 1987); ACCREDITED BY ASM (1985)

Contact: (did not respond to survey)

BRITISH COLUMBIA**Kelowna Museum (KM)**

Mammal Collection

470 Queensway

Kelowna, British Columbia V1Y 6S7, Canada

750 specimens; includes former Dun-Waters Collection

Contact: Dan Bruce

Voice: 604-763-2417

FAX: 604-763-5722

Royal British Columbia Museum (RBCM)

(formerly British Columbia Provincial Museum, BCPM)

675 Belleville Street

Victoria, British Columbia V8V 1X4, Canada

18,500 specimens; collection includes 24 holotypes; regional emphasis (British Columbia); additional contact: Angela Beltane (voice: 604-387-2926; e-mail: ebeltane@rbml01.rbcm.gov.bc.ca); ACCREDITED BY ASM (1976)

Contact: David Nagorsen

Voice: 604-387-2933

FAX: 604-387-5360

E-mail: dnagorsen@rbml01.rbcm.gov.bc.ca

University of British Columbia, Cowan Vertebrate Museum (UBC)

Department of Zoology

University of British Columbia

Vancouver, British Columbia V6T 1Z4, Canada

20,000 specimens; ACCREDITED BY ASM (1975)

Contact: Richard Cannings

Voice: 604-822-4665

FAX: 604-822-2416

E-mail: vetmus@bcu.ubc.ca

MANITOBA**Manitoba Museum of Man and Nature (MMMN)**

190 Rupert Avenue

Winnipeg, Manitoba R3B 0N2, Canada

19,000 specimens; regional emphasis; includes former collections of Delta Waterfowl Research Station, Atomic Energy of Canada Limited, Whiteshell Nuclear Research Establishment (WNRE), and University of Manitoba Zoological Museum (UMAN, part); additional contact: Janis Klapecki (voice: 204-988-0620)

Contact: Jack Dubois/R. Puttenham

Voice: 204-988-0659

FAX: 204-942-3679

Riding Mountain National Park (RMNP)

Wasagaming, Manitoba R0J 2H0, Canada

Collection size not reported; local emphasis

Contact: Head, Resource Management

Voice: 204-848-7222

FAX: 204-848-2866

University of Manitoba, Zoological Collection (UMAN)

Department of Zoology

University of Manitoba

Winnipeg, Manitoba R3T 2N2, Canada

300 specimens; used for teaching only; all scientific specimens were donated to the Manitoba Museum of Man and Nature (MMMN)

Contact: William O. Pruitt, Jr.

Voice: 204-474-9683

FAX: 204-275-6352

E-mail: pruitt@bldgduff.lan1.umanitoba.ca

NEW BRUNSWICK**New Brunswick Museum (NBM)**

277 Douglas Avenue
Saint John, New Brunswick E2K 1E5, Canada

Contact: Donald F. McAlpine
Voice: 506-643-2345
FAX: 506-643-2360

6,000 specimens; regional emphasis (New Brunswick); good cetacean holdings; includes former N. Rae Brown Collection (NRBC)

NOVA SCOTIA**Acadia University, Wildlife Museum (AUW)**

Department of Biology
Acadia University
Wolfville, Nova Scotia B0P 1X0, Canada

Contact: Michael J. Dadswell
Voice: 902-542-2201
FAX: 902-542-3466
E-mail: dadswel@acadiau.ca

2,100 specimens; former collection acronym: AUM; additional contact: Ian MacDonald

Nova Scotia Museum of Natural History (NSM)

1747 Summer Street
Halifax, Nova Scotia B3H 3A6, Canada

Contact: Frederick Scott
Voice: 902-424-7370
FAX: 902-424-0560
E-mail: can-nsmz@immedia.ca

1,980 specimens; additional contact: Alex Wilson

ONTARIO**Algonquin Park Museum (APM)**

(formerly Algonquin Provincial Park, APP)
Algonquin Park Visitor Center
Ministry of Natural Resources, Box 219
Whitney, Ontario K0J 2M0, Canada

Contact: Dan Strickland
Voice: 613-637-2828
FAX: 613-637-2138
E-mail: strickdd@epo.gov.on.ca

354 specimens at last report (Yates et al., 1987); local emphasis (Algonquin Park); additional contact: Ron Tozer (e-mail: tozerrr@epo.gov.on.ca)

Canadian Museum of Nature (CMN)

(formerly National Museum of Natural Sciences, NMC)
Mammal Collection
P. O. Box 3443 Station "D"

Contact: Darlene Balkwill
Voice: 613-952-0827
FAX: 613-954-6439

Ottawa, Ontario K1P 6P4, Canada

E-mail: dbalkwill@mus-nature.ca

53,000 specimens; collection includes 58 holotypes; significant holdings of Canadian species, Nearctic species, and North Atlantic cetaceans; includes former Wistar Institute Collection (part), C. H. Buckner Collection, Leo Jobin Collection, Arthur Martel Collection, and the collection of the Arctic Biological Station; additional contact: David Campbell (voice: 613-954-4949; e-mail: dcampbell@mus-nature.ca); ACCREDITED BY ASM (1975 and 1987)

Carleton University, Museum of Zoology (CUMZ)

Department of Biology
Carleton University
1125 Colonel By Drive
Ottawa, Ontario K1S 5B6, Canada

Contact: Donald A. Smith
Voice: 613-788-2600
FAX: 613-788-4497

12,000 specimens; includes Donald A. Smith Collection

Ministry of Natural Resources (MNR)

Wildlife Resources
P. O. Box 5000
Maple, Ontario L6A 1S9, Canada

Contact: Ed Addison
Voice: 905-832-7124
FAX: 905-832-7149
E-mail: addisoed@epo.gov.on.ca

2,419 specimens; primarily skeletal material of carnivores of Ontario

Rondeau Provincial Park (RPPMC)

Rural Route 1
Morpeth, Ontario N0P 1X0, Canada
150 specimens; regional emphasis (southern Ontario)

Contact: Pamela Burns
Voice: 519-674-1768
FAX: 519-674-1755

Royal Ontario Museum (ROM)

Department of Mammalogy
100 Queen's Park
Toronto, Ontario M5S 2C6, Canada

Contact: Mark D. Engstrom
Voice: 416-586-5769
FAX: 416-586-5863
E-mail: marke@rom.on.ca

100,000 specimens; collection includes 13 holotypes; significant holdings of mammals of Ontario and the northern Neotropics; comprehensive, worldwide collection of bats; frozen-tissue collection (8,300 specimens); includes former collections of O. J. Barton, J. G. Williams, R. G. Lanning, R. Mumford, and R. Brooman; additional contact: Judith L. Eger (voice: 416-586-5767; e-mail: judithe@rom.on.ca); ACCREDITED BY ASM (1975 and 1995)

University of Guelph (UGDZ)

Department of Zoology
University of Guelph
Guelph, Ontario N1G 2W1, Canada
2,086 specimens; regional emphasis

Contact: E. Graham Nancekivell
Voice: 519-824-4120
FAX: 519-767-1656

QUEBEC**McGill University, Redpath Museum (RM)**

859 Sherbrooke Street West
Montreal, Quebec H3A 2K6, Canada
4,000 specimens; collection emphasizes small mammals of Quebec

Contact: Delise Alison
Voice: 514-398-4092; FAX: 514-398-3185

Université Laval, Collection de Vertébrés (CVUL)

(formerly Musée Prorancher, MP)
Department of Biology
Laval University
Sainte-Foy, Quebec G1K 7P4, Canada
3,900 specimens, regional emphasis

Contact: Jean-Marie Perron
Voice: 418-656-2497
FAX: 418-656-7925

SASKATCHEWAN**Royal Saskatchewan Museum (RSM)**

(formerly Saskatchewan Museum of Natural History, SMNH)
2340 Albert Street
Regina, Saskatchewan S4P 3V7, Canada
3,200 specimens; regional emphasis (mammals of Saskatchewan)

Contact: David Baron
Voice: 306-787-2814
FAX: 306-787-2645

University of Regina (USRC)

Biology Department
University of Regina
Regina, Saskatchewan S4S 0A2, Canada

250 specimens at last report (Yates et al., 1987); collection used for teaching only

Contact: D. M. Secoy
Voice: 306-585-4231
FAX: 306-585-4894

CHILE**Museo de Historia Natural de Concepción (MHNC)**

Colección Mastozoológica
Maipú 2359
Casilla de Correo 1054
Concepción, Chile

123 specimens, mostly taxidermy displays

Contact: Juan Franklin Troncoso
Voice and FAX: 56-41-310932

Museo de Historia Natural de Valparaiso (MHNV)

Colección de Mamíferos
Condell 1546
Casilla 3208 Correo 3
Valparaiso, Chile

1,270 specimens; mostly rodents and lagomorphs of Chile

Contact: Sergio Zunino Tapia
Voice: 56-32-257441
FAX: 56-32-213375

Museo Nacional de Historia Natural (MNHN)

Sección Zoología
Casilla 787
Santiago de Chile, Chile

1,633 specimens; collection includes 18 holotypes; exclusively Chilean mammals

Contact: Jose Yañez
Voice: 56-2-6814095
FAX: 56-2-6817182

Universidad Austral de Chile, Instituto de Ecología y Evolución (IEEUACH)

Colección de Mamíferos
Casilla 567
Universidad Austral de Chile
Valdivia, Chile

5,940 specimens; mostly rodents from central and southern Chile; chromosomal preparations (1,500) and frozen tissues (500)

Contact: Milton H. Gallardo
Voice: 56-63-221469
FAX: 56-63-221344
E-mail: mgallard@valdivia.uca.uach.cl

Universidad de Chile, Laboratorio de Citogenética de Mamíferos (LCM)

Departamento de Biología y Genética
Facultad de Medicina
Universidad de Chile
Independencia 1027, Casilla 6556, Medicina Norte
Santiago 7, Chile

1,900 specimens; collection emphasizes Chilean rodents; frozen tissues (100); chromosomal preparations (several hundred); additional contact: Laura Walker

Contact: Angel Spotorno
Voice: 56-2-6786469
FAX: 56-2-7373158
E-mail: aspotorn@med.uchile.cl

Universidad de Concepción, Museo de Zoología (MZUC)

Departamento de Zoología
Facultad de Ciencias Naturales y Oceanográficas
Universidad de Concepción
Casilla 2407
Concepción, Chile

1,100 specimens; exclusively mammals of Chile; a new Museum of Natural Sciences will house this collection in 1997 (street address probably will change); additional contact: José Artigas (voice: 56-41-204152; e-mail: jartigas@halcon.dpi.udec.cl)

Contact: Viviane Jerez
Voice: 56-41-204965
FAX: 56-41-2448805
E-mail: mzuc@halcon.dpi.udec.cl

Universidad de Magallanes, Instituto de la Patagonia (CZIP)

Colección Zoológica
Sala "Enrique Ibar Sierra"
Universidad de Magallanes
Instituto de la Patagonia
Casilla 113-D, Punta Arena, Chile
1,259 specimens; mostly rodents from southern Chile

Contact: Claudio Venegas
Voice: 56-61-217173
FAX: 56-61-212973
E-mail: cvenegas@aoniken.fc.umag.cl

COLOMBIA

Instituto de Ciencias Naturales, Museo de Historia Natural (ICN)

Colección de Mamíferos
Museo de Historia Natural
Apartado 7495
Santa Fé de Bogotá, Colombia
15,400 specimens; mostly small mammals of Colombia; additional contact: Cecilia Ramirez

Contact: Alberto Cadena
Voice: 571-268-4336
FAX: 571-268-2485

La Unidad de Investigación "Federico Medem"-Inderena (IND-M)

Colección Mastozoológica
Apartado Aéreo 13458
Santa Fé de Bogotá, Colombia
7,250 specimens; collection includes two holotypes; collection is now part of the Instituto de Investigaciones Biológicas "Alexander von Humboldt" (Ministerio del Medio Ambiente); the address probably will change

Contact: Hernando Chirivi Gallego
Voice: 571-286-0601
FAX: 571-243-1850

Universidad del Valle, Colección de Mamíferos (UV)

Departamento de Biología
Universidad del Valle
Apartado Aéreo 25360
Cali, Colombia
9,500 specimens; exclusively Colombian mammals, especially rodents, bats, and marsupials

Contact: Michael Alberico
Voice: 572-339-3243
AX: 572-339-2440
E-mail: alberico@biologia.univalle.edu.co

COSTA RICA

Museo Nacional de Costa Rica (MNCR)

Colección de Mastozoológica
Departamento de Historia Natural
Apartado 749
San José, Costa Rica
300 specimens; collection emphasizes Costa Rican mammals; some old specimens with historic value

Contact: Bernal Rodríguez H.
E-mail: rherrera@cariari.ucr.ac.cr

Universidad de Costa Rica, Museo de Zoología (MZUCR)

Colección de Mamíferos
Escuela de Biología
Universidad de Costa Rica
San José, Costa Rica
2,050 specimens; exclusively Costa Rican mammals

Contact: José Manuel Mora
Voice: 506-207-5544
FAX: 506-207-4216
E-mail: jmmora@cariari.ucr.ac.cr

ECUADOR

Escuela Politécnica Nacional (EPN)

Colección de Vertebrados
Calle Ladrón de Guevara e Isabel La Católica
Apartado 17-01-2759
Quito, Ecuador

Contact: Luis Albuja
Voice: 593-2-507153
FAX: 593-2-567848
E-mail: lalbuja@mail.epn.edu.ec

4,000 specimens, exclusively Ecuadorian mammals; some specimens are of special historical value

Museo de Ciencias Naturales, Colección "Gustavo Orcés" (MUGM)

Sección de Mastozoología
Museo de Ciencias Naturales
Casilla 5404
Guayaquil, Ecuador

Contact: Windsor Aguirre

150 specimens; exclusively Ecuadorian mammals

Museo Ecuatoriano de Ciencias Naturales (MECN)

Colección de Mastozoología
Rumipamba 341 y Avenida de Los Shyris
Parque "La Carolina"
Casilla 8976, suc. 7
Quito, Ecuador

Contact: Igor Castro R.
Voice: 593-2-449825
FAX: 593-2-504-356
E-mail: museocn@jsacha.ecx.ec

665 specimens; exclusively Ecuadorian mammals; >70% are bats

Pontificia Universidad Católica del Ecuador, Museo de Zoología-Mamíferos (QCAZ)

Departamento de Ciencias Biológicas
Pontificia Universidad Católica del Ecuador
Avenida 12 de Octubre (entre Patria y Veintemilla)
Apartado 17-01-2184
Quito, Ecuador

Contact: Luis Coloma
Voice: 593-2-529250
FAX: 593-2-567117
E-mail: lcoloma@puce.edu.ec

1,300 specimens, mostly Ecuadorian mammals; collection address may change within the next 2 years

EL SALVADOR

Museo de Historia Natural de El Salvador (MHNES*)

Colección de Mastozoología
Calle Los Viveros (final), Colonia Nicaragua
Parque "Saburo Hirao"
San Salvador, El Salvador

Contact: Azalea de Granados

*720 specimens; mostly mammals of El Salvador (*Tentative acronym assigned by the authors)*

MEXICO

Centro Interdisciplinario de Estudios, Colección Mastozoológica (OAXM)

Apartado Postal 24-3, Oaxaca
Oaxaca, México

Contact: Emma Cisneros
Voice: 52-951-70610
FAX: 52-951-70400

750 specimens; mostly rodents of Oaxaca; additional contact: Carlos Bonilla

Centro de Investigaciones Biológicas del Noroeste (CIB)

Colección de Mamíferos
Km 17.5 Carretera al Norte
Apartado Postal 128

La Paz, Baja California Sur 23000, México

1,100 specimens; mostly mammals of northwestern Mexico; frozen tissues (530 specimens); additional contact: Sergio Ticul Alvarez-Castañeda (sticul@cibnor.conacyt.mx)

Contact: Patricia Cortez Calva

Voice: 52-112-53633

FAX: 52-112-53625

E-mail: pcortes@cibnor.conacyt.mx

El Colegio de la Frontera Sur (ECOSUR)

Carretera Panamericana y Periférico Sur

Apartado Postal 63

29290 San Cristobal de las Casas

Chiapas, México

230 specimens; mostly local species; collection probably will merge with those of Instituto de Historia Natural del Gobierno de Chiapas (IHN), and therefore may change location

Contact: Dario Navarrete

Voice and FAX: 52-967-81884

Escuela Nacional de Ciencias Biológicas (ENCB)

Colección de Mamíferos

Instituto Politécnico Nacional

Plan de Ayala esquina prolongación Carpio

México, Distrito Federal 11340, México

38,400 specimens; exclusively Mexican mammals; additional contact: Juan Carlos Lopez Vidal

Contact: Ticul Alvarez

Voice: 52-5-7296000, extension 62421

FAX: 52-5-3963503

Instituto de Ciencias y Artes de Chiapas, Museo Zoológico (MZ-ICACH)

Calzada Samuel León Brindis 151

Tuxtla Gutierrez, Chiapas 029000, México

760 specimens; collection emphasizes local species

Contact: Matias Martínez

Voice: 52-961-21437

FAX: 52-961-21957

Instituto Nacional de la Pesca (PNICMM-INP)

Colección Osteológica, Programa Nacional de Investigación
y Conservación de Mamíferos Marinos

Centro Regional de Investigación Pesquera de La Paz

Km 1 Carretera a Pichilingüe

La Paz, Baja California Sur, México

70 specimens; exclusively marine mammals from the Pacific Ocean

Contact: Hector Perez Cortés

Voice: 52-112-52623

FAX: 52-112-30122

Instituto Politécnico Nacional, Colección Científica de Fauna Silvestre (CRD)

Centro Interdisciplinario de Investigación

Instituto Politécnico Nacional

Unidad Durango, Zarco 106

Vicente Guerrero, Durango 34890, México

950 specimens; exclusively mammals from the state of Durango

Contact: Raul Muñoz Martínez

Voice and FAX: 52-186-50265

Investigaciones Biológicas de la Universidad Veracruzana (IIBUV)

Colección Mastozoológica

km 2.5 en la Carretera Xalapa-Veracruz

Apartado Postal 294

Xalapa, Veracruz 91190, México

2,350 specimens; mostly rodents and bats from the state of Veracruz

Contact: Alvar Gonzalez Christen

Voice and FAX: 52-125-7575

Universidad Autónoma de Aguascalientes (CZUAA)

Colección de Zoología
Avenida Universidad, Edificio 27 "A"
Aguascalientes, México
595 specimens; collection emphasizes regional mammals

Contact: Gilfredo de La Riva
Voice: 52-491-23345
AX: 52-491-43222

Universidad Autónoma Metropolitana, Unidad Iztapalapa (UAMI)

Colección de Mamíferos
Avenida Michoacán y Calzada Purfísima
Colonia Vicentina, México, Distrito Federal 04390, México

Contact: José Ramírez Pulido
Voice: 52-5-7244692
FAX: 52-5-7244688
E-mail: jrp@xanum.uam.mx

13,197 specimens; mostly mammals of central Mexico; additional contact: Alondra Castro Campillo (e-mail: acc@xanum.uam.mx)

Universidad Autónoma de Tamaulipas, Instituto de Ecología y Alimentos (CM-IEA)

Colección de Mamíferos
Universidad Autónoma de Tamaulipas
13 Boulevard Adolfo Lopez Mateos 928
Ciudad Victoria, Tamaulipas, México
300 specimens; mostly local mammals

Contact: Leonardo Corral Perez
Voice: 52-131-62721
FAX: 52-131-64289

Universidad Autónoma de Yucatán, Facultad de Medicina Veterinaria y Zootecnia (UAY*)

Colección de Mamíferos
Universidad Autónoma de Yucatán
Km 15.5 de la Carretera Mérida-Xmatkuil
Apartado Postal 4-116 Itzimná
Mérida, Yucatán, México

Contact: Silvia Hernandez
Voice and FAX: 52-99-234009

*220 specimens; collection emphasizes mammals from the state of Yucatán (*Tentative acronym assigned by the authors)*

Universidad de Michoacán (CM-UMSNH)

Colección de Mastozoología
Facultad de Biología
Ciudad Universitaria, Edificio "B" (Planta alta)
Morelia, Michoacán
2,300 specimens; collection emphasizes local mammals

Contact: Arturo Nuñez Garduño
Voice: 52-43-161766

Universidad Nacional Autónoma de Baja California Sur (UABCS)

Colección de Mamíferos
Museo de Historia Nacional
Km 5.5 Carretera al Sur
La Paz, Baja California Sur 23000, México

Contact: Emelio Brajau
Voice: 52-112-12801, extension 133
FAX: 52-112-12477

100 specimens; exclusively mammals from the state of Baja California Sur

Universidad Nacional Autónoma de México, Facultad de Ciencias (FCMM)

Colección de Mamíferos Marinos
Universidad Nacional Autónoma de México
Apartado Postal 70-572
México, Distrito Federal 04510, México

Contact: Luis Medrano
Voice: 52-5-6224913; FAX: 52-5-6224828
E-mail: lmg@hp.fcencias.unam.mx

250 specimens; exclusively marine mammals; additional contact: Mario Salinas Z.

Universidad Nacional Autónoma de México, Instituto de Biología (IBUNAM)

Colección Nacional de Mamíferos

Contact: Fernando Cervantes

Departamento de Zoología

Voice: 52-5-6225706

Apartado Postal 70-153

FAX: 52-5-5500164

México, Distrito Federal 04510, México

E-mail: fac@servidor.unam.mx

37,830 specimens; collection includes 11 holotypes; mostly Mexican mammals; frozen tissues (660 specimens); additional contact: Yolanda Hortelano; ACCREDITED BY ASM (1975 and 1983)

NETHERLANDS ANTILLES

Christoffel Park Museum (CPM)

Carnabi Foundation

Contact: Leon P. J. J. Pors

Piscaderabaai

Voice: 599-9-624242

P. O. Box 2090

FAX: 599-9-627680

Curaçao, Netherland Antilles

41 specimens; mostly deer; additional contact: Adolphe O. Debrot

PANAMA

Instituto Nacional de Cultura, Museo de Ciencias Naturales (INC*)

Colección de Mamíferos Nacionales y Extranjeros

Contact: Nuria Esquivel de Barillas

Instituto Nacional de Cultura

Voice: 507-250-645

Apartado 662

FAX: 507-250-646

Panama 1, Panama

*86 specimens; collection used primarily for educational purposes (*Tentative acronym assigned by the authors)***Universidad de Panama, Museo de Vertebrados (CM-MVUP)**

Colección de Mamíferos

Contact: Victor Tejera N.

Departamento de Zoología

Facultad de Ciencias Naturales y Exactas

Apartado 6-2842

El Dorado, Panama

1,000 specimens; emphasis on small mammals of Panama

PARAGUAY

Museo Nacional de Historia Natural del Paraguay (MNHNP)

Ministerio de Agricultura y Ganaderia

Contact: Isabel Gamarra de Fox

Sucursal 19-Campus

Voice: 595-258-5208

Ciudad Universitaria-Central XI, Paraguay

FAX: 595-249-5568

2,260 specimens; exclusively mammals of Paraguay

PERU

Universidad Nacional de San Agustín, Museo de Historia Natural (MUSA)

Avenida Aleidas Carreon

Contact: Horacio Zeballos

Apartado Postal 1430

Arequipa, Peru

440 specimens; primarily mammals of southwestern Peru

Universidad Nacional de San Marcos, Museo de Historia Natural (MUSM)

Avenida Arenales 1256

Apartado 140434

Lima-14, Peru

12,000 specimens; collection emphasizes Peruvian mammals; tissues preserved in alcohol (350 specimens); additional contact: Elena Vivar (vivar@musm.edu.pe)

Contact: Victor Pacheco

Voice: 511-471-0117

E-mail: vpacheco@musm.edu.pe

SURINAME

National Zoological Collection of Suriname (NZCS)

University of Suriname

P. O. Box 9212

Paramaribo, Suriname

390 specimens; mostly bats and rodents from Suriname; additional contact: Shamita A. Shadew

Contact: Paul. E. Ouboter

Voice: 597-465558, extension 318

FAX: 597-462291

TRINIDAD AND TOBAGO

University of the West Indies (UWI*)

Department of Zoology

University of the West Indies

Saint Augustine, Trinidad

Trinidad and Tobago

*102 specimens; collection emphasizes regional mammals (*Tentative acronym assigned by authors)*

Contact: Savitree Rattan

UNITED STATES

ALABAMA

Auburn University Museum (AUM)

Department of Zoology and Wildlife Science

331 Funchess Hall

Auburn University, AL 36849-5414

1,500 specimens; primarily mammals of Alabama; former collection acronym: AU

Contact: Troy L. Best

Voice: 334-844-9260

FAX: 334-844-9234

E-mail: besttro@mail.auburn.edu

University of South Alabama, Vertebrate Natural History Collection (USANHC)

Department of Biology

University of South Alabama

Mobile, AL 36688

989 specimens; fluid-preserved material (500 specimens); collection emphasizes local species; former collection acronym: USA

Contact: David H. Nelson

Voice: 334-460-6331

FAX: 334-460-7357

ALASKA

Alaska Department of Fish and Game (AFGMC)

333 Raspberry Road

Anchorage, AK 99503

1,200 specimens; exclusively mammals of Alaska

Contact: Donald G. Calkins

Voice: 907-267-2403

Glacier Bay National Park and Preserve Museum (GBNM)

P. O. Box 140
Gustavus, AK 99826-0140

Contact: Mary Beth Moss
Voice: 907-697-2230
FAX: 907-697-2654

96 specimens; collection emphasizes local species (Glacier Bay National Park and Preserve)

Pratt Museum (PM)

3779 Bartlett Street
Homer, AK 99603

Contact: Elizabeth A. Webb
Voice: 907-235-6077
FAX: 907-235-2764

530 specimens; skeletal material of whales; exclusively mammals from southcentral Alaska

University of Alaska Museum (UAM)

Mammal Collection
907 Yukon Drive
University of Alaska
Fairbanks, AK 99775-6960

Contact: Joseph A. Cook
Voice: 907-474-6946
FAX: 907-474-5469
E-mail: ffjac@aurora.alaska.edu

38,000 specimens; includes collection formerly listed as Naval Arctic Research Laboratory (NARL); emphasis on mammals of Arctic and subarctic regions; phocine seals; frozen tissues (17,000 specimens); additional contact: Gordon Jarrell (voice: 907-474-6947; FAX: 907-474-5469; e-mail: fngjhj@aurora.alaska.edu; ACCREDITED BY ASM (1975 and 1983))

ARIZONA**Arizona State University, Mammal Collection (ASUMC)**

Department of Zoology
Arizona State University
Tempe, AZ 85287-1501

Contact: Michael E. Douglas
Voice: 520-965-3571
FAX: 520-965-2519
E-mail: abmed@asuvm.inre.asu.edu

7,100 specimens; exclusively specimens from the United States

Grand Canyon National Park Museum Collection (GRCAMC)

(formerly Grand Canyon National Park Study
Collection, GRCASC)
P. O. Box 129
Grand Canyon, AZ 86023-0129

Contact: Carolyn Richard
Voice: 520-638-7769
FAX: 520-638-7797

900 specimens; collection emphasizes mammals of Grand Canyon National Park; additional contacts: Colleen Hyde and Kim Besom

Museum of Northern Arizona (MNA)

Route 4, Box 720
Flagstaff, AZ 86001

Contact: Michael Morales
Voice: 520-774-5211
FAX: 520-779-1527

4,214 specimens; regional emphasis (Grand Canyon and Colorado Plateau); additional contact: Deb Hill (voice: 602-774-5211, extension 228; FAX: 602-779-1527)

Northern Arizona University, Museum of Vertebrates (NAUVM)

Department of Biological Sciences
Northern Arizona University
Flagstaff, AZ 86011-5640

Contact: Gary C. Bateman
Voice: 520-523-7237
FAX: 520-523-7500
E-mail: gcb@nauvax.ucc.nau.edu

4,627 specimens; emphasis on small mammals of Arizona; also, Mexican and African bats; former collection acronym: NAU

Petrified Forest National Park (PFSS)
 Petrified Forest, AZ 86028
100 specimens; collection emphasizes local species

Contact: David DeWitt
 Voice: 520-524-6228
 FAX: 520-524-3567

Southwestern Research Station (SWRS)
 American Museum of Natural History
 P. O. Box G
 Portal, AZ 85632
239 specimens; collection emphasizes local species

Contact: Wade C. Sherbrooke
 Voice and FAX: 520-558-2396

University of Arizona, Collection of Mammals (UA)

Department of Ecology and Evolutionary Biology
 University of Arizona
 Tucson, AZ 85721

27,683 specimens; collection emphasizes regional species, with particular strength in bats; additional contact: Yar Petryszyn (voice: 602-621-7291); ACCREDITED BY ASM (1975 and 1982)

Contact: Michael Nachman
 Voice: 520-621-1303

Walnut Canyon National Monument (WACA)

Walnut Canyon Road
 Flagstaff, AZ 86004
62 specimens; collection emphasizes local species

Contact: J. L. DeYoung
 Voice: 520-556-7040
 FAX: 520-556-7071

ARKANSAS

Arkansas State University, Collection of Recent Mammals (ASUMZ)

Department of Biological Sciences
 Arkansas State University
 State University, AR 72467-0599

32,000 specimens; regional emphasis, with strengths in bats, insectivores, rodents, and carnivores; ACCREDITED BY ASM (1976)

Contact: V. Rick McDaniel
 Voice: 501-972-3082
 FAX: 501-972-2638
 E-mail: vrmcdanl@quapaw.astate.edu

Henderson State University, Museum of Zoology (HSUMZ)

Department of Biology
 Henderson State University
 Arkadelphia, AR 71999
419 specimens; collection emphasizes local species

Contact: Renn Tumilson
 Voice: 501-230-5152
 E-mail: tumilson@holly.hsu.edu

University of Arkansas, Museum Zoological Collections (UAMZC)

(formerly University of Arkansas Department of
 Zoology, UADZ)
 University Museum
 University of Arkansas
 Fayetteville, AR 72701

2,650 specimens; collection emphasizes regional species (primarily mammals of Arkansas)

Contact: Nancy G. McCartney
 Voice: 501-575-3456
 FAX: 501-575-3846
 E-mail: nmccartn@saturn.uark.edu

University of Arkansas at Little Rock, Vertebrate Collection (UALRVC)

Department of Biology
 University of Arkansas at Little Rock
 Little Rock, AR 72204

6,200 specimens; local emphasis, with strengths in Dasypus, Mephitis, and Peromyscus; ACCREDITED BY ASM (1977)

Contact: Gary A. Heidt
 Voice: 501-569-3511
 FAX: 501-569-3271
 E-mail: gaheidt@ualr.edu

CALIFORNIA**California Academy of Sciences (CAS)**

Department of Ornithology and Mammalogy

California Academy of Sciences

Golden Gate Park

San Francisco, CA 94118

23,953 specimens; includes the former Stanford University Collection; additional contact: Luis Baptista (voice: 415-750-7178; e-mail: lbaptista@calacademy.org); ACCREDITED BY ASM (1975)

Contact: Karen Cebra

Voice: 415-750-7177

FAX: 415-750-7346

E-mail: kcebra@calacademy.org

California Polytechnic State University, San Luis Obispo (CPSU)

Aryan I. Roest Mammal Collection

Biological Sciences Department

California Polytechnic State University

San Luis Obispo, CA 93407

2,616 specimens; collection emphasizes local and regional species

Contact: V. L. Holland

Voice: 805-756-2789

California State Polytechnic University, Pomona (CSPUP)

Biological Sciences Department

California State Polytechnic University

Pomona, CA 91768

976 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

California State University, Chico, Vertebrate Museum (CSUC)

Biology Department

California State University

Chico, CA 95929

5,198 specimens; collection emphasizes mammals of northern California

Contact: Raymond J. Barnett

Voice: 916-898-5356

California State University, Fresno (CSUF)

Department of Biology

California State University

Fresno, CA 93740-0073

3,900 specimens; local emphasis, with strengths in *Dipodomys* and *Thomomys*

Contact: C. Kronberg

Voice: 209-278-2696

FAX: 209-278-7139

California State University, Long Beach (CSULB)

Department of Biological Sciences

California State University

Long Beach, CA 90840-3702

11,959 specimens; regional emphasis, including Mexico; additional contact: Anne Staskewicz (voice: 310-985-4883); ACCREDITED BY ASM (1979, 1980)

Contact: David G. Huckaby

Voice: 310-985-4869

FAX: 310-985-8878

E-mail: dhuckaby@csulb.edu

California State University, Northridge (CSUN)

Department of Biology

California State University

Northridge, CA 91330

1,380 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

California State University, Turlock (CSCS)

Department of Biological Sciences
California State University
Turlock, CA 95380

Contact: (*did not respond to survey*)

1,000 specimens at last report (Yates et al., 1987)

Death Valley National Park (DEVA)

Museum Collection, Furnace Creek
National Park Service
P. O. Box 579

Contact: Blair Davenport

Voice: 619-786-2331

FAX: 619-786-3283

E-mail: blair_davenport@nps.gov

Death Valley, CA 92328

368 specimens; collection emphasizes local mammals (Death Valley)

Diablo Valley College Museum (DVCM)

Diablo Valley College
Pleasant Hill, CA 94523

Contact: Audrey Maher Kamprath

455 specimens; additional contact: Jerry Underwood

Humboldt State University (HSU)

Vertebrate Museum
Department of Biological Sciences
Humboldt State University
Arcata, CA 95521

Contact: Timothy E. Lawlor

Voice: 707-826-4410

FAX: 707-826-3201

E-mail: lawlor@axe.humboldt.edu

7,200 specimens; collection emphasizes local species, plus mammals of the Great Basin; strong in marine mammals; frozen tissues (1,000 specimens); ACCREDITED BY ASM (1984)

Lassen Volcanic National Park (LAVO)

P. O. Box 100
Mineral, CA 96063

Contact: Scott Isaacson

Voice: 916-595-4444

FAX: 916-595-3262

35 specimens; collection emphasizes local species; former collection acronym: LVNP

Monterey Peninsula College, Life Science Museum (MPC)

Monterey Peninsula College
Monterey, CA 93953

Contact: (*did not respond to survey*)

71 specimens at last report (Yates et al., 1987)

Natural History Museum of Los Angeles County (LACM)

Section of Birds and Mammals
Natural History Museum of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

Contact: John E. Heyning

Voice: 213-763-3404

FAX: 213-746-2999

E-mail: heyning@mizar.usc.edu

97,000 specimens; collection includes 22 holotypes; noteworthy holdings of mammals of California, Costa Rica, and Africa; marine mammals; frozen tissues (2,500 specimens); includes collections formerly held by Western Foundation of Vertebrate Biology, California Institute of Technology (part), and University of Southern California; additional contact: Tom Lewis (voice: 213-585-3553); ACCREDITED BY ASM (1978)

Occidental College, Moore Laboratory of Zoology (MLZ)

Occidental College
1600 Campus Road
Los Angeles, CA 90041

Contact: John C. Hafner
Voice: 213-259-2673
FAX: 213-259-2887
E-mail: hafner@oxy.edu

1,737 specimens; strong Mexican holdings; includes former private collections of R. T. Moore and W. W. Brown; additional contact: James R. Northern (voice: 213-259-2659; e-mail: northern@oxy.edu)

Pacific Grove Museum of Natural History (PGMNH)

165 Forest Avenue
Pacific Grove, CA 93950
202 specimens; exclusively mammals of the United States

Contact: P. M. Finnegan
Voice: 408-648-3116

Pacific Union College, Museum of Natural History (PUCMNH)

Pacific Union College
Angwin, CA 95408
1,000 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Point Reyes National Seashore (PORE)

Superintendent
Point Reyes National Seashore
Point Reyes Station, CA 94956

Contact: John A. Dell'Osso
Voice: 415-663-8522
FAX: 415-663-8132
E-mail: pore_interp@nps.gov

121 specimens; local emphasis (Point Reyes National Seashore); former collection acronym: PRNS

San Bernardino County Museum (SBCM)

Biological Science Division
2024 Orange Tree Lane
Redlands, CA 92374-2850

Contact: Robert McKernan
Voice: 909-798-8570
FAX 909-798-8585

7,670 specimens; emphasis on deserts and coastal plain of the southwestern United States; frozen tissue collection (1,000 specimens); contains former private collection of Harry Coombs

San Diego Natural History Museum (SDNHM)

Department of Birds and Mammals
P. O. Box 1390
San Diego, CA 92112

Contact: Philip Unitt
Voice: 619-232-3821
FAX: 619-232-0248

22,430 specimens; collection includes 89 holotypes; emphasis on Baja California, southern California, Oregon, Arizona, and Sonora; strong in marine mammals; contains former private collections of L. M. Huey and S. G. Jewett; ACCREDITED BY ASM (1975)

San Diego State University (SDSU)

Department of Biology
San Diego State University
San Diego, CA 92182

Contact: J. David Archibald
Voice: 619-594-6917
FAX: 619-594-5676

2,000 specimens; emphasis on local species and exotic zoo specimens; additional contact: Beverley Anderson-Abbs (voice: 619-594-4769; e-mail: banderso@sunstroke.sdsu.edu)

San Jose State University, Museum of Birds and Mammals (MBM)

Department of Biological Sciences
San Jose State University
San Jose, CA 95192-0100

Contact: John O. Matson
Voice: 408-924-4891
FAX: 408-924-4840
E-mail: matson@biomail.sjsu.edu

3,735 specimens; emphasis on local species; strong in marine mammals; contains collection formerly managed by the United States Geological Survey

Santa Barbara Museum of Natural History (SBMNH)

Mammal Collection
Santa Barbara Museum of Natural History
2559 Puesta Del Sol
Santa Barbara, CA 93105

Contact: Charles D. Woodhouse
Voice: 805-682-4711
FAX: 805-569-3170
E-mail: vertzoo@rain.org

9,650 specimens; collection includes 24 holotypes; emphasis on mammals of central California; contains former private collection of Jack C. Von Bloeker, Jr. (part); additional contact: Paul W. Collins (voice: 805-682-4711, extension 321); ACCREDITED BY ASM (1986)

United States Forest Service, San Joaquin Experimental Range (SJER)

Coursegold, CA 93614
360 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

University of California, Berkeley, Museum of Vertebrate Zoology (MVZ)

3101 Valley Life Sciences Building
University of California
Berkeley, CA 94720

Contact: James L. Patton
Voice: 510-642-3567
FAX: 510-643-8238
E-mail: patton@uclink.berkeley.edu

187,500 specimens; emphasis on mammals of California, western United States, Alaska, British Columbia, Mexico, El Salvador, Peru, Argentina, Australia, and New Guinea; frozen-tissue collection (10,000 specimens); contains former private collections of M. M. Greene, M. Hildebrand, and D. R. Dickey (El Salvador material only); additional contacts: Barbara R. Stein (e-mail: bstein@garnet.berkeley.edu), Eileen Lacey (email: ealacey@violet.berkeley.edu) and, for tissues, Carla Cicero (e-mail: carla@ucbcmsa.berkeley.edu); ACCREDITED BY ASM (1975)

University of California, Davis, Museum of Wildlife and Fisheries Biology (MWFB)

University of California
Davis, CA 95616

Contact: Ronald E. Cole
Voice: 916-752-0364
FAX: 916-752-4154
E-mail: recole@ucdavis.edu

6,000 specimens; contains collections formerly managed by University of California, Davis, Department of Zoology and University of California, Irvine

University of California, Hastings Natural History Reservation (HNHR)

38601 East Carmel Valley Road
Carmel Valley, CA 93924

Contact: Mark R. Stromberg
Voice: 408-659-2664
FAX: 408-659-3649
E-mail: stromber@violet.berkeley.edu

300 specimens; exclusively mammals of California

University of California, Los Angeles, Dickey Collection (UCLA)

Department of Biology

405 Hilgard

University of California

Los Angeles, CA 90024-1606

21,188 specimens; collection includes 48 holotypes; contains former private collections of D. R. Dickey, A. J. Van Rossem, A. B. Howell, and Loye Miller, and the former collection of the California Institute of Technology (part)

Contact: W. J. Hillenius

Voice: 310-825-1282

FAX: 310-206-3987

E-mail: hillenius@biology.lifesci.ucla.edu

University of California, Santa Barbara, Santa Barbara Vertebrate Museum (UCSB)

University of California

Santa Barbara, CA 93106

2,500 specimens at last report (Yates et al., 1987); ACCREDITED BY ASM (1986)

Contact: (did not respond to survey)

The Yosemite Museum (YNP)

National Park Service

P. O. Box 577

Yosemite, CA 95389

800 specimens; local emphasis (Yosemite region); additional contact: Barbara Beroza (voice: 209-372-0297; e-mail: barbara_beroza@nps.gov)

Contact: David M Forgang

Voice: 209-372-0282

E-mail: david_forgang@nps.gov

COLORADO**Adams State College Collection (ASCC)**

Department of Biology

Adams State College

Alamosa, CO 81101

72 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

Colorado National Monument (COLM)

National Park Service

Fruita, CO 81521

105 specimens; local emphasis (Colorado National Monument); additional contact: Patrick Perrotti (voice: 303-858-3617; FAX: 303-858-0372)

Contact: Laurie Lee

Voice: 303-858-3617

FAX: 303-858-0372

Colorado State University, Mammalogy Teaching Collection (CSUTC)

Department of Biology

Colorado State University

Fort Collins, CO 80523

715 specimens; local emphasis

Contact: Bruce A. Wunder

Voice: 303-491-5949

FAX: 303-491-0649

E-mail: bwunder@lamar.colostate.edu

Denver Museum of Natural History (DMNH)

2001 Colorado Boulevard

Denver, CO 80205-5798

8,800 specimens; collection includes nine holotypes; emphasis on mammals of Colorado, with many specimens collected before 1960; additional contact: William G. Alther (voice: 303-370-8321); ACCREDITED BY ASM (1989)

Contact: Cheri A. Jones

Voice: 303-370-6354

FAX: 303-331-6492

E-mail: cajones@csn.net

Dinosaur National Monument (DINO)

Box 101
Dinosaur, CO 81610
50 specimens at last report (Yates et al., 1987)

Contact: (*did not respond to survey*)

Fort Lewis College (FLC)

Department of Biology
Fort Lewis College
Durango, CO 81301-3999
240 specimens; local emphasis

Contact: Joseph C. Ortega

Great Sand Dunes National Monument (GSDNM)

11500 Highway 150
Mosca, CO 81146

Contact: Sue Judis
Voice: 719-378-2312
FAX: 719-378-2594

30 specimens; local emphasis; additional contact: William E. Wellman

Rocky Mountain Biological Laboratory (RMBL)

Box 519
Crested Butte, CO 81224

Contact: Susan Lohr
Voice: 303-349-7231
FAX: 303-349-7231
E-mail: rmbldir@wsc.colorado.edu

Rocky Mountain National Park (ROMO)

Estes Park, CO 80517

Contact: James A. Mack
Voice: 303-586-1220
FAX: 303-586-1310

585 specimens; local emphasis; additional contact: Vernon C. Betts (voice: 303-586-1257); former collection acronym: RMNP

University of Colorado Museum (UCM)

Zoological Collections (Mammals)
Campus Box 315
University of Colorado
Boulder, CO 80309

Contact: Shi-Kuei Wu
Voice: 303-492-7359
FAX: 303-492-5105
E-mail: skwu@spot.colorado.edu

18,373 specimens; collection includes one holotype; regional emphasis (Rocky Mountains); contains former private collections of E. R. Warren and D. A. Spencer; additional contact: Rosanne Humphrey (voice: 303-492-0276; e-mail: humphrey@spot.colorado.edu); ACCREDITED BY ASM (1975)

University of Northern Colorado (UNC-B*)

Vertebrate Collections-Biology
Department of Biological Sciences
University of Northern Colorado
Greeley, CO 80639

Contact: James P. Fitzgerald
Voice: 303-351-2923
FAX: 303-351-1085

1,560 specimens; local emphasis, primarily rodents and bats; (*acronym modified by authors; former acronym: UNC-BIOLOGY)

CONNECTICUT

University of Connecticut (UCONN)

Mammal Research Collection
 Department of Ecology and Evolutionary Biology
 University of Connecticut
 Storrs, CT 06269-3043

Contact: Robert E. Dubos
 Voice: 203-486-4457
 FAX: 203-486-6364
 E-mail: dubos@uconnvm.uconn.edu

22,000 specimens; emphasis on mammals of New England and Paraguay; additional contact: Kurt Schwenk (voice: 203-486-0351); ACCREDITED BY ASM (1975 and 1983)

Yale University, Peabody Museum of Natural History (YPM)

Section of Mammals
 Peabody Museum of Natural History
 Yale University
 170 Whitney Avenue

Contact: Elisabeth S. Vrba
 Voice: 203-432-5008
 FAX: 203-432-9816

New Haven, CT 06511

9,500 specimens; contains Marsh osteological material, Morden African expedition, primate osteological specimens, and Baker Coahuila mammals; additional contact: Fred C. Sibley (voice: 203-432-5159; e-mail: fred.sibley@yale.edu)

DELAWARE

Delaware Museum of Natural History (DMNH)

P. O. Box 3937
 Greenville, DE 19807
9,000 specimens; strong Philippine holdings

Contact: Gene K. Hess
 Voice: 302-658-9111
 FAX: 302-658-2610

University of Delaware (UDEL)

Department of Entomology and Applied Ecology
 University of Delaware
 Newark, DE 19717-1303

Contact: Roland R. Roth
 Voice: 302-831-1300
 FAX: 302-831-3651
 E-mail: roland.roth@mvs.udel.edu

400 specimens; collection emphasizes mid-Atlantic region of the United States

DISTRICT OF COLUMBIA

United States National Museum of Natural History (USNM)

Division of Mammals
 Smithsonian Institution and Biological Resources
 Division of the United States Geological Survey
 10th and Constitution Avenue, N.W.
 Washington, D. C. 20560

Contact: Richard W. Thorington, Jr.
 Voice: 202-357-2150
 FAX: 202-786-2979
 E-mail: mnhvz049@sivm.si.edu

585,000 specimens; collection includes 3,336 holotypes; worldwide representation with many historically important series; marine-mammal collection; frozen-tissue collection (2,500 specimens); additional contacts: Alfred L. Gardner (voice: 202-357-2876; FAX: 202-357-1932); Linda K. Gordon (voice: 202-786-2495; e-mail: mnhvz034@sivm.si.edu); Charles W. Potter (voice: 202-786-2497; e-mail: mnhvz022@sivm.si.edu); Robert D. Fisher (voice: 202-357-1865; e-mail: mnhvz032@sivm.si.edu); ACCREDITED BY ASM (1975, 1977, and 1979)

FLORIDA

Everglades National Park (ENP)

40001 State Road 9336
 Homestead, FL 33034-6733
50 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Florida State University Museum (FSUM)

Department of Biological Science
 Florida State University
 Tallahassee, FL 32306

Contact: Frances C. James
 Voice: 904-644-3700
 FAX: 904-644-9829
 E-mail: james@bio.fsu.edu

670 specimens; local emphasis; former collection acronym: FSU

University of Florida, Florida Museum of Natural History (UF)

Department of Natural Sciences
 Florida Museum of Natural History
 University of Florida
 Gainesville, FL 32611

Contact: Charles A. Woods
 Voice: 904-392-6561
 FAX: 904-392-8508
 E-mail: cawoods@flmnh.ufl.edu

28,613 specimens; important regional collection, including cetaceans and Florida panthers; additional contact: Laurie Wilkins (voice: 904-392-6764; FAX: 904-846-0287; e-mail: lauriew@flmnh.ufl.edu); former collection acronym: FSM; ACCREDITED BY ASM (1975 and 1983)

GEORGIA**Savannah Science Museum (SSM)**

4405 Paulsen Street
 Savannah, GA 31405

Contact: *(did not respond to survey)*

7 specimens at last report (Yates et al., 1987)

University of Georgia, Museum of Natural History (UGAMNH)

Museum of Natural History
 University of Georgia
 Athens, GA 30602-1882

Contact: Joshua Laerm
 Voice: 706-542-1663
 FAX: 706-542-3920
 E-mail: laerm@museum.ent.uga.edu

18,083 specimens; emphasis on mammals of the southeastern United States; includes former Georgia State University Collection; additional contact: Elizabeth McGhee (voice: 706-542-3940; e-mail: emcghee@museum.ent.uga.edu); ACCREDITED BY ASM (1985)

HAWAII**Bernice P. Bishop Museum (BPBM)**

1525 Bernice Street
 P. O. Box 19000-A
 Honolulu, HI 96817-0916

Contact: Scott Miller
 FAX: 808-847-8252;
 E-mail: scottm@bishop.bishop.hawaii.org

15,532 specimens; collection includes 11 holotypes; important series from Solomon Islands and Papua New Guinea; additional contact: Carla Kishinami (voice: 808-848-4198; e-mail: carlak@bishop.bishop.hawaii.org); ACCREDITED BY ASM (1975 and 1986)

IDAHO**Albertson College of Idaho, Orma J. Smith Museum of Natural History (CIMNH)**

Albertson College of Idaho
 2112 Cleveland Boulevard
 Caldwell, ID 83605

Contact: Eric Yensen
 Voice: 208-459-5335
 FAX: 208-454-2077
 E-mail: eyensen@stimpay.acofi.edu

1,110 specimens; good series of Spermophilus; frozen-tissue collection (50 specimens)

Idaho Fish and Game (IFGD)

Wildlife Health Laboratory
16569 South 10th Avenue
Caldwell, ID 83605
733 specimens; local emphasis

Contact: Julia Mulholland
Voice: 208-327-7070
FAX: 208-454-7667

University of Idaho, Bird and Mammal Museum (UIDA)

University of Idaho
Moscow, ID 83843

Contact: Donald R. Johnson
Voice: 208-885-6583
FAX: 208-885-7905

3,700 specimens; exclusively taxidermy mounts; features specimens from remote sites in Idaho

ILLINOIS**Burpee Museum of Natural History (BMNHC)**

737 and 813 North Main Street
Rockford, IL 61103

Contact: Barbara C. Williams
Voice: 815-965-3132

681 specimens; local emphasis; additional contact: Michael Henderson (voice: 815-965-3132)

Chicago Academy of Sciences (CHAS)

2001 North Clark Street
Chicago, IL 60614

Contact: Ron Vasile
Voice: 312-549-0606
FAX: 312-549-5199

5,056 specimens; collection includes two holotypes; includes former Northwestern University Collection; additional contact: Mary Hennen (voice: 312-549-0606, extension 2037; e-mail: hennen@fmnh785.fmnh.org); ACCREDITED BY ASM (1989)

Eastern Illinois University (EIU)

Zoology Department
Eastern Illinois University
Charleston, IL 61920

Contact: Thomas A. Nelson
Voice: 217-581-2500
FAX: 217-581-2722
E-mail: cftan@eiu.edu

1,050 specimens; regional emphasis (Illinois)

The Field Museum (FMNH)

(formerly Field Museum of Natural History)
Division of Mammals
The Field Museum
Roosevelt Road at Lake Shore Drive
Chicago, IL 60605

Contacts: L. R. Heaney/B. D. Patterson
Voice: 312-922-9410
FAX: 312-663-5397
E-mail: heaney@fmppr.fmnh.org
or patterso@fmppr.fmnh.org

156,400 specimens; collection includes 416 holotypes; significant holdings of primates and mammals of Chile, Peru, Philippines, East and Central Africa, Egypt, Iran, and Afghanistan; frozen-tissue collection (10,000 specimens); includes former B. J. Hayward Collection, Milwaukee Public Museum Collection of African mammals, and Princeton Biology Department Collection; additional contact: William T. Stanley (voice: extension 491; e-mail: stanley@fmppr.fmnh.org); ACCREDITED BY ASM (1975 and 1983)

Illinois Natural History Survey (INHS)

607 East Peabody Drive
Champaign, IL 61820

Contact: Lawrence M. Page
Voice: 217-333-6846
FAX: 217-333-4949

960 specimens; regional emphasis (Illinois); additional contact: Kevin S. Cummings (voice: 217-333-1623; e-mail: cummings@ux1.cso.uiuc.edu)

Illinois State Museum (ISM)

Spring and Edwards Streets
Springfield, IL 62706
4,000 specimens at last report (Yates et al., 1987)

Contact: (*did not respond to survey*)

Illinois State University (ISU)

Department of Biological Sciences
Illinois State University
Normal, IL 61790-4120
1,060 specimens; regional emphasis (Illinois)

Contact: Angelo Capparella
Voice: 309-438-5124
FAX: 309-438-3722
E-mail: apcappar@ilstu.edu

Rockford College (RCMC)

Department of Biology
Rockford College
Rockford, IL 61101
200 specimens at last report (Yates et al., 1987)

Contact: (*did not respond to survey*)

Southern Illinois University (SIUCM)

Mammal Collection
Department of Zoology, Mailcode 6501
Southern Illinois University
Carbondale, IL 62901
6,980 specimens; emphasis on mammals of Illinois, western Kentucky, and western Tennessee; includes former collection of the Cooperative Wildlife Research Laboratory at Southern Illinois University (CWRL)

Contact: George A. Feldhamer
Voice: 618-453-4115
FAX: 618-453-4110
E-mail: feldhamer@qm.c-zoo.siu.edu

Southern Illinois University, Edwardsville (SIUE)

Department of Zoology
Southern Illinois University
Edwardsville, IL 62025
1,300 specimens at last report (Yates et al., 1987)

Contact: (*did not respond to survey*)

University of Illinois, Museum of Natural History (UIMNH)

University of Illinois
Urbana, IL 61801
61,063 specimens; collection includes 20 holotypes; contains former W. W. Goodpaster and Edward Taylor Collections; additional contacts: Ann Hutflies or Steven D. Sroka (voice: 217-333-3906); ACCREDITED BY ASM (1975 and 1985)

Contact: Douglas Brewer
Voice: 217-333-2517

United States Army, Construction Engineering Research Laboratories, Biological Inventory Collection (CERL/BIC)

Box 4005
Champaign, IL 61820
500 specimens at last report (Yates et al., 1987)

Contact: William D. Severinghaus
Voice: 217-352-6511, extension 420

Western Illinois University, Museum of Natural History (WIU)

Department of Biological Sciences
Western Illinois University
Macomb, IL 61455
1,345 specimens; local emphasis

Contact: Jeanette A. Thomas
Voice: 309-298-1546
FAX: 309-298-2270
E-mail: mfjat@uxa.ecn.bgu.edu

INDIANA

Ball State University, Mammal Collection (BSUMC)

Biology Department
Ball State University
Muncie, IN 47306

300 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Earlham College, Joseph Moore Museum (JMM)

Natural History Collection
Joseph Moore Museum
Earlham College
Richmond, IN 47374

4,248 specimens; local emphasis; additional contact: William H. Buskirk

Contact: John B. Iverson
Voice: 317-983-1405
FAX: 317-983-1497
E-mail: johni@earlham.edu

Indiana State University (ISUVC)

Department of Life Sciences
Indiana State University
Terre Haute, IN 47809

6,398 specimens; local emphasis

Contact: John O. Whitaker, Jr.
Voice: 812-237-2383

University of Southern Indiana (USI)

(formerly Indiana State University, Evansville, ISUE)
Department of Biology
University of Southern Indiana
Evansville, IN 47712

203 specimens; local emphasis

Contact: James H. Bandoli
Voice: 812-464-1792
FAX: 812-464-1960
E-mail: jhbandol.ucs@smtp.usi.edu

IOWA

Buena Vista College (BVC)

Biology Department
Buena Vista College
Storm Lake, IA 50588

660 specimens at last report (Yates et al., 1987)

Contact: Richard P. Lampe

Central College (CUI)

Biology Department
Central College
Pella, IA 50219

550 specimens; collection emphasizes mammals of Iowa; Yucatan bats; several hundred specimens transferred to University of Iowa, Museum of Natural History (IOWA)

Contact: H. P. Whidden
Voice: 515-628-5147
FAX: 515-628-5316
E-mail: whiddenh@central.edu

Luther College, Sherman A. Hoslett Museum of Natural History (SHMC)

Department of Biology
Luther College
Decorah, IA 52101-1045

1,595 specimens; mammals of northeastern Iowa and the upper-midwestern United States

Contact: Tex A. Sordahl
Voice: 319-387-1553
FAX: 319-387-1080
E-mail: sordahl@luther.edu

Putnam Museum of History and Natural Science (PM)

1717 West 12th Street
Davenport, IA 52804

Contact: Janice A. Hall
Voice: 319-324-1934
FAX: 319-324-6638

575 specimens; local emphasis; additional contact: Scott Roller

Sanford Museum Collections (SM)

117 East Willow
Cherokee, IA 51012

Contact: *(did not respond to survey)*

Size of collection not reported in Yates et al. (1987)

State Historical Society of Iowa (ISNHC)

(formerly Iowa State Natural History Collection)

East 6th and Locust
Des Moines, IA 50319

Contact: William M. Johnson
Voice: 515-281-5627
FAX: 515-282-0502

85 specimens; local emphasis

University of Iowa, Museum of Natural History (IOWA)

University of Iowa
Iowa City, IA 52242

Contact: George D. Schrimper
Voice: 319-335-0481

2,455 specimens; regional emphasis (Iowa); includes W. T. Hornaday Australian marsupials plus several hundred specimens transferred from Central College, Pella, IA (CUI); additional contact: Holmes Semken, Geology Department, University of Iowa (voice: 319-335-1830)

University of Northern Iowa, Nixon Wilson Collection (NWC)

Department of Biology
University of Northern Iowa
Cedar Falls, IA 50614

Contact: *(did not respond to survey)*

340 specimens at last report (Yates et al., 1987)

University of Northern Iowa (UNI)

Department of Biology
University of Northern Iowa
Cedar Falls, IA 50614

Contact: *(did not respond to survey)*

40 specimens at last report (Yates et al., 1987)

KANSAS**Emporia State University, Schmidt Museum of Natural History (SMNH)**

Emporia State University
Emporia, KS 66801

Contact: Dwight Moore
Voice: 316-341-5611
FAX: 316-341-6055

900 specimens; local emphasis

E-mail: mooredwi@esumail.emporia.edu

Fort Hays State University, Sternberg Museum of Natural History (MHP)

Collection of Mammals
Fort Hays State University
Hays, KS 67601

Contact: J. R. Choate
Voice: 913-628-5664
FAX: 913-628-4046
E-mail: bijc@fhsuvm.fhsu.edu

35,000 specimens; collection includes one holotype; large series of Great Plains mammals; combined collections of the Sternberg Museum, former Museum of the High Plains, and part of the C. A. Ely Collection; ACCREDITED BY ASM (1975 and 1980)

Friends University, Fellow-Reeve Museum of History and Science (FRM)

Friends University
2100 University
Wichita, KS 67213

Contact: Philip Nagley
Voice: 316-292-5594
FAX: 316-263-1092

31 specimens; taxidermy mounts; material collected by Quaker missionaries (United States, Canada, and Africa)

Pratt Education Center and Aquarium (PECA)

(formerly Kansas Forestry, Fish and Game
Commission, KFFGC)

Kansas Department of Wildlife and Parks

512 S.E. 25th Avenue

Pratt, KS 67124-8174

Contact: Roland Stein
Voice: 316-672-5911
FAX: 316-672-6020

128 specimens; primarily taxidermy mounts; additional contact: Steve Stockhouse

Kansas State University (KSU)

Teaching Collection

Division of Biology

Kansas State University

Manhattan, KS 66506-4901

500 specimens; primarily material from the United States; collection used for teaching

Contact: Donald W. Kaufman

Voice: 913-532-6622

FAX: 913-532-6653

E-mail: dwkaufma@lter-konza.konza.ksu.edu

Pittsburg State University (PSUMC)

Biology Department

Pittsburg State University

Pittsburg, KS 66762

1,200 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Southwestern College, Natural History Museum (SCNHM)

Southwestern College

100 College Street

Winfield, KS 67156-2499

2,100 specimens; emphasis on southcentral Kansas; small collections from Australia, Africa, Mexico

Contact: Max Thompson

Voice: 316-221-8273

FAX: 316-221-8382

E-mail: maxt@jinx.sckans.edu

University of Kansas, Museum of Natural History (KU)

Division of Mammals

University of Kansas

Lawrence, KS 66045-2454

156,000 specimens; collection includes 129 holotypes; important series from the Great Plains, western United States, Mexico, and Central America; frozen-tissue collection (500 specimens); contains former collections of the Kansas City Museum, the Ralph Ellis Collection, the Albert Schwartz Collection, and the University of Miami, Coral Gables Collection; additional contact: Thor Holmes (voice: 913-864-3047); ACCREDITED BY ASM (1975 and 1987)

Contact: Robert M. Timm

Voice: 913-864-4180

FAX: 913-864-5335

E-mail: btimm@falcon.cc.ukans.edu

Wichita State University (WSBC)

Department of Biological Sciences

Wichita State University

Wichita, KS 67208-1595

200 specimens

Contact: D. A. Distler

Voice: 316-689-3113

KENTUCKY**Eastern Kentucky University (EKU)**

Biology Department
 Eastern Kentucky University
 Richmond, KY 40475
 925 specimens at last report (Yates et al., 1987)

Contact: Charles L. Elliott
 Voice: 606-622-1531
 FAX: 606-622-1020

Murray State University (MSUMC)

Department of Biological Sciences
 Murray State University
 Murray, KY 42071

Contact: Robert A. Martin
 Voice: 502-762-6754
 FAX: 502-764-4887
 E-mail: a46713f@msumusic.bitnet

700 specimens; local emphasis, with synoptic series from eastern United States

University of Kentucky (UKEN)

Vertebrate Natural History Collection
 Thomas Hunt Morgan School of Biological Sciences
 University of Kentucky
 Lexington, KY 40506
 5,346 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

Western Kentucky State University (WKSU)

Bowling Green, KY 42101
 100 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

LOUISIANA**Centenary College Vertebrate Collection (CCVC)**

(formerly Centenary College Collection, CCC)
 Biology Department
 Centenary College
 Shreveport, LA 71104
 1,450 specimens; about one-half of the collection is Latin American material

Contact: A. Bradley McPherson
 Voice: 318-869-5209
 FAX: 318-869-5211
 E-mail: bmcphers@beta.centenary.edu

Louisiana State University, Museum of Natural Science (LSUMZ)

119 Foster Hall
 Louisiana State University
 Baton Rouge, LA 70803-3216

Contact: Mark S. Hafner
 Voice: 504-388-3083
 FAX: 504-388-3075
 E-mail: namark@unix1.sncc.lsu.edu

37,945 specimens; collection includes 23 holotypes; collection emphasizes mammals from southcentral United States, Mexico, Central America, and South America; frozen-tissue collection (5,300 specimens); contains former collection of the University of Southwestern Louisiana (USLBM); additional contact: Steven Cardiff; ACCREDITED BY ASM (1975 and 1989)

Louisiana Tech University (LTU)

Zoology Vertebrate Research Collection
 Department of Zoology
 Louisiana Tech University
 Ruston, LA 71272
 2,588 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

Northeast Louisiana University, Museum of Zoology (NLU)

Department of Biology
 Northeast Louisiana University
 Monroe, LA 71209

Contact: Neil H. Douglas
 Voice: 318-342-1799

1,100 specimens; local emphasis; former collection acronym: NELU

Northwestern State University of Louisiana (NSUL)

Department of Biology
 Northwestern State University of Louisiana
 Natchitoches, LA 71201

Contact: *(did not respond to survey)*

1,740 specimens at last report (Yates et al., 1987)

Southeastern Louisiana University, Vertebrate Museum (SLU)

Department of Biological Sciences
 Southeastern Louisiana University
 Hammond, LA 70402-0814
534 specimens; local emphasis

Contact: Philip C. Stouffer
 Voice: 504-549-2191
 FAX: 504-549-3851
 E-mail: fbi02251@selu.edu

Tulane University, Museum of Natural History (TU)

F. Edward Hebert Research Center
 Tulane University
 Belle Chasse, LA 70037

Contact: Henry L. Bart, Jr.
 Voice: 504-394-1711
 FAX: 504-394-5045
 E-mail: piscine@mailhost.tcs.tulane.edu

7,807 specimens; additional contacts: Michael S. Taylor, (same address as above); Craig S. Hood (Department of Biological Sciences, Loyola University, New Orleans, LA 70118; voice: 504-865-2288; e-mail: chood@beta.loyno.edu)

MAINE**University of Maine, Farmington (UMF)**

Department of Biology
 University of Maine
 Farmington, ME 04938

Contact: *(did not respond to survey)*

2,000 specimens at last report (Yates et al., 1987)

University of Maine (UMO)

Department of Wildlife Ecology
 University of Maine
 Orono, ME 04469

Contact: Thomas P. Hodgman
 Voice: 207-581-2876
 FAX: 207-581-2858
 E-mail: hodgman@apollo.umnfa.maine.edu

1,532 specimens; local emphasis; good series of coyote, fisher, and marten skulls

MARYLAND**Frostburg State University, Mammal Collection (FSUMC)**

(formerly Appalachian Environmental Laboratory, AEL)
 Department of Biology
 Frostburg State University
 Frostburg, MD 21532-1099

Contact: Ronald E. Barry
 Voice: 301-689-4167
 FAX: 301-689-4737
 E-mail: rbarry@fre.fsu.umd.edu

2,164 specimens; regional emphasis

Patuxent Wildlife Research Center (PWRC)

Laurel, MD 20708

300 specimens; local emphasis, plus synoptic collection

Contact: M. C. Perry

Voice: 301-497-5622

FAX: 301-497-5624

MASSACHUSETTS**Amherst College, Pratt Museum of Natural History (PMNH)**

Neontology Collection

Amherst College

Amherst, MA 01002

Contact: Linda L. Thomas

Voice: 413-542-2165

FAX: 413-542-2713

E-mail: llthomas@amherst.edu

500 specimens; additional contact: Margery C. Coombs (voice: 413-542-2710; e-mail: mcc@bio.umass.edu)

Boston University (BUTC)

Biology Department Teaching Collection

Boston University

2 Cummington Street, Boston, MA 02215

300 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

Harvard University, Museum of Comparative Zoology (MCZ)

Mammal Department

Harvard University

Cambridge, MA 02138

Contact: A. W. Crompton

Voice: 617-495-3202

FAX: 617-495-5667

E-mail: a_crompton@harvard.edu

72,000 specimens; collection includes 322 holotypes; important collection of primates, including material from southeastern Asia, Africa, and South America; historically important North American series; contains former collections of O. Bangs, R. S. Palmer, M. Copeland, Kirk, and Grandidier; additional contact: Maria E. Rutzmoser (voice: 617-495-2469; e-mail: m_e_rutz@mcz.harvard.edu); ACCREDITED BY ASM (1975)

Massachusetts Division of Fisheries and Wildlife (MDFW)

Field Headquarters

1 Rabbit Hill Road

Westborough, MA 01581

115 specimens; regional emphasis (Massachusetts)

Contact: James E. Cardoza

Voice: 508-792-7270

FAX: 508-792-7275

Northeastern University Vertebrate Collection (NUVC)

Center for Vertebrate Studies

Department of Biology

Northeastern University

Boston, MA 02115

29,433 specimens; New England emphasis; large series of *Globicephala melaena*, *Canis latrans*, and *Martes pennanti*

Contact: Gwilym S. Jones

Voice: 617-373-4027

FAX: 617-373-3724

E-mail: g.jones@nunet.neu.edu

Peabody Essex Museum (PMS)

Natural History Department

East India Square

Salem, MA 01970

295 specimens; local emphasis (Essex Co., Massachusetts); additional contact: Christine Jones

Contact: Jane M. Winchell

Voice: 508-745-1876, extension 3127

FAX: 508-744-6776

Springfield Science Museum (SSM)

236 State Street
Springfield, MA 01103
650 specimens; local emphasis

Contact: David J. Stier
Voice: 413-733-1194
FAX: 413-739-8785

University of Massachusetts, Museum of Zoology (UMA)

Department of Biology
University of Massachusetts
Amherst, MA 01003-0027
4,465 specimens; good series of rodents and bats

Contact: Curator of collection
Voice: 413-545-3565
FAX: 413-545-1696

Westfield State College, Museum and Herbarium (WSC)

The Museum and Herbarium
Westfield State College
Westfield, MA 01086

Contact: David A. Lovejoy
Voice: 413-572-5307
FAX: 413-562-3613
E-mail: d_lovejoy@owl.wsc.mass.edu

1,601 specimens; local emphasis, especially Peromyscus; contains former David A. Lovejoy Collection (DALC)

MICHIGAN**Central Michigan University, Center for Cultural and Natural History (CCNH)**

Central Michigan University
Mt. Pleasant, MI 48859

Contact: Lynn Fauver
Voice: 517-774-3829
FAX: 517-774-3542
E-mail: l.fauver@cmuvm.csv.cmich.edu

2,711 specimens; local emphasis

Cranbrook Institute of Science (CIS)

Box 801
1221 North Woodward Avenue
Bloomfield Hills, MI 48303-0801
304 specimens; collection used for exhibition

Contact: Carole S. DeFord
Voice: 810-645-3214
FAX: 810-645-3050
E-mail: aa634@detroit.freenet.org

Eastern Michigan University, T. L. Hankinson Vertebrate Museum (EMU)

Department of Biology
Eastern Michigan University
Ypsilanti, MI 48197
600 specimens; local emphasis

Contact: Allen Kurta
E-mail: bio_kurta@emuvax.emich.edu

Hope College (HCMZ)

Department of Biology
Hope College
Holland, MI 49422-9000
328 specimens; local emphasis

Contact: Kathy Winnett-Murray
Voice: 616-395-7719
E-mail: winnettmurray@hope.cit.hope.edu

Lake Superior State College (LSSC)

Biology Department
Lake Superior State College
Sault Sainte Marie, MI 49783
300 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Michigan State University Museum (MSU)

Mammalogy Division
Michigan State University
East Lansing, MI 48824-1045

Contact: A. Christopher Carmichael
Voice: 517-353-6624
FAX: 517-432-2846
E-mail: ccarmchl@museum.cl.msu.edu

37,132 specimens; emphasis on mammals of Great Lakes region, Mexico (particularly Zacatecas, Oaxaca, and Durango), and South America; good series of Saguinus; additional contact: Laura Abraczinskas (voice: 517-355-1290; e-mail: laura@museum.cl.msu.edu); ACCREDITED BY ASM (1975 and 1985)

Public Museum of Grand Rapids (GRPM)

(formerly Grand Rapids Public Museum)
54 Jefferson SE
Grand Rapids, MI 49503

Contact: Bryan Kwapil
Voice: 616-456-3891
FAX: 616-456-3926

310 specimens; regional emphasis; additional contact: Marilyn Merdzinski

University of Michigan, Museum of Zoology (UMMZ)

University of Michigan
Ann Arbor, MI 48109

Contact: Philip Myers
Voice: 313-764-0456
FAX: 313-763-4080
E-mail: pmyers@umich.edu

138,517 specimens; collection includes 122 holotypes; good holdings of Mexican species, Philippine bats, and mammals of Paraguay, Costa Rica, and Panama; contains Lee R. Dice Collection of Peromyscus, former Frederick H. Test Collection (FHTC), and University of Michigan Department of Zoology Collection (UMDZ); frozen-tissue collection (1,000 specimens); additional contact: Priscilla Tucker; ACCREDITED BY ASM (1975 and 1987)

Wayne State University, Museum of Natural History (WSUMNH)

Department of Biological Sciences
Wayne State University
Detroit, MI 48202

Contact: Jeheskel (Hezy) Shoshani
Voice: 313-577-2873
FAX: 313-577-6891

1,352 specimens (reported in Yates et al., 1987)

MINNESOTA**Bemidji State University, Vertebrate Collections (BSCVC)**

Department of Biology
Bemidji State University
Bemidji, MN 56601

Contact: Elizabeth Rave
Voice: 218-755-2785
FAX: 218-755-4107

2,536 specimens; local emphasis

Saint John's University, Biology Collections (SJUBC)

Department of Biology
Saint John's University
Collegeville, MN 56321-3000

Contact: Norman L. Ford
Voice: 612-363-3172

500 specimens; local emphasis

The Science Museum of Minnesota (SMM)

Biological Collections
30 East 10th Street
St. Paul, MN 55101

Contact: Frederick J. Jannett, Jr.
Voice: 612-221-9429
FAX: 612-221-4777

45,513 specimens; regional emphasis (Minnesota); contains the F. J. Jannett Collection; additional contacts: Lori Leirdahl (voice: 612-221-9435), Gretchen Anderson (voice: 612-221-4764); collection is not catalogued

University of Minnesota, Duluth (UMD)

Department of Biology
 University of Minnesota
 Duluth, MN 55812
1,150 specimens; local emphasis (northern Minnesota)

Contact: Donald Christian

University of Minnesota, James Ford Bell Museum of Natural History (MMNH)

Mammal Collection
 100 Ecology Building
 1987 Upper Buford Circle
 University of Minnesota
 St. Paul, MN 55108

Contact: Elmer C. Birney
 Voice: 612-624-6293
 FAX: 612-624-6777
 E-mail: ecbirney@ecology.umn.edu

17,302 specimens; collection emphasizes mammals of Minnesota, Philippine historical materials, Mexican bats and rodents, Patagonian rodents and marsupials; frozen-tissue collection (50 specimens); contains former University of Minnesota Wildlife Collection (UMDFW); ACCREDITED BY ASM (1975)

MISSISSIPPI**Mississippi Museum of Natural Science (MMNS)**

111 North Jefferson
 Jackson, MS 39202
6,850 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Mississippi State University, Zoological Collections (MSUZ)

Department of Biological Sciences
 Box GY
 Mississippi State, MS 39762
750 specimens; local emphasis; former collection acronym: MISSU

Contact: Jerome A. Jackson
 Voice: 601-325-7568
 FAX: 601-325-7939

MISSOURI**Central Missouri State University (CMSU)**

Biology Department
 Central Missouri State University
 Warrensburg, MO 64093
2,181 specimens; local emphasis

Contact: Laura J. McLellan
 Voice: 816-543-8785
 FAX: 816-543-8006
 E-mail: mclellan@cmsuvmc.cmsu.edu

Gaylord Memorial Laboratory Museum (GML)

Route 1, Box 185
 Puxico, MO 63960
100 specimens; local emphasis

Contact: Leigh Fredrickson

Northwest Missouri State University (NWMSU)

Department of Biology
 Northwest Missouri State University
 Maryville, MO 64468-6001
2,000 specimens

Contact: David A. Easterla

Truman State University (NEMSU)

(formerly Northeast Missouri State University)
 Division of Science
 Truman State University
 Kirksville, MO 63501
 2,900 specimens; regional emphasis (Missouri)

Contact: L. Scott Ellis
 Voice: 816-785-4621
 FAX: 816-785-4045
 E-mail: sellis@truman.edu

University of Missouri, Museum of Zoology (MUMZ)

112 Stephens Hall
 University of Missouri, Columbia
 Columbia, MO 65211

3,791 specimens; regional emphasis (Missouri)

Contact: Mary J. Ratnaswamy
 Voice: 573-882-9424
 FAX: 573-884-5070
 E-mail: mary_ratnaswamy@muccmail.missouri.edu

MONTANA**Glacier National Park, Glacier Collection (GLAC)**

West Glacier, MT 59936
 250 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

Montana State University (MSUB)

Montana Department of Fish, Wildlife and Parks
 Wildlife Laboratory
 Montana State University
 Bozeman, MT 59717

7,100 specimens; regional emphasis; good series of Montana brown bears; frozen-tissue collection (400 specimens); additional contact: Phillip Schladwieler

Contact: Keith E. Aune
 Voice: 406-994-6357
 FAX: 406-994-4090

University of Montana, Zoological Museum (UMZM)

(formerly University of Montana Bird and Mammal
 Museum, UMZ)
 Division of Biological Sciences
 University of Montana
 Missoula, MT 59801

12,350 specimens; contains John and Frank Craighead Grizzly Bear Collection; Chinese and Russian mammals; good collection of carnivore and skeletal material; ACCREDITED BY ASM (1975 and 1985)

Contact: David L. Dyer
 Voice: 406-243-4743
 FAX: 406-243-4184

NEBRASKA**Chadron State College, Collection of Vertebrates (CSCCV)**

Chadron State College
 1000 Main Street
 Chadron, NE 69337

3,500 specimens; local emphasis; planning underway to transfer most specimens to the University of Nebraska, Lincoln (UNSM) in the near future; former collection acronym: CSC

Contact: Jay Dee Druecker
 Voice: 308-432-6278
 FAX: 308-432-6434
 E-mail: jdruecker@csccl.csc.edu

Hastings College, Collection of Vertebrates (HCCV)

Department of Biology
 Hastings College
 Hastings, NE 68901

550 specimens; collection contains a few specimens transferred from Hastings Museum (HM)

Contact: Dallas E. Wilhelm, Jr.
 Voice: 402-461-7382
 FAX: 402-463-3002
 E-mail: dwillhelm@hastings.edu

Hastings Museum (HM)

1330 North Burlington
Hastings, NE 68901
264 specimens; exclusively taxidermy mounts

Contact: Burton Nelson
Voice: 402-461-2399
FAX: 402-461-2379

Kearney State University, Vertebrate Museum (VMKSC)

Biology Department
Kearney State University
Kearney, NE 68849-0531
3,647 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

University of Nebraska State Museum (UNSM)

Division of Zoology
University of Nebraska, Lincoln
Lincoln, NE 68588-0514

Contact: Patricia W. Freeman
Voice: 402-472-6606
FAX: 402-472-8949
E-mail: pfreeman@unlinfo.unl.edu

11,400 specimens; large series of regional species; specimens of historical importance; contains the Edson Fichter Collection and part of the University of Nebraska, Omaha Collection; additional contact: Thomas E. Labeledz (voice: 402-472-8366; e-mail: tlabeledz@unlinfo.unl.edu); ACCREDITED BY ASM (1975)

University of Nebraska at Omaha (UNO)

Department of Biology
University of Nebraska at Omaha
Omaha, NE 68182-0040
610 specimens; local emphasis

Contact: Kenneth N. Geluso
Voice: 402-554-2840
E-mail: kngeluso@cwis.unomaha.edu

NEVADA**Lake Mead National Recreation Area (LAME)**

601 Nevada Highway
Boulder City, NV 89005

Contact: Leslie Peterson
Voice: 702-293-8959
FAX: 702-293-8936

145 specimens; local emphasis (record of species in area prior to inundation of Lake Mead)

Nevada State Museum (NSMC)

Capitol Complex
Carson City, NV 89710

Contact: Ann Pinzl
Voice: 702-687-4810
FAX: 702-687-4168

1,426 specimens; regional emphasis (Nevada); former collection acronym: NSM

Nevada State Museum and Historical Society (NSMHS)

700 Twin Lakes Drive
Las Vegas, NV 89107

Contact: George T. Austin
Voice: 702-486-5205
FAX: 702-486-5172

7,600 specimens; regional emphasis; contains former collections of the University of Nevada, Las Vegas (UNLV) and the J. R. Alcorn Collection (JRAC)

University of Nevada, Museum of Biology (UNEVN)

Department of Biology/314
University of Nevada
Reno, NV 89557
1,770 specimens; local emphasis

Contact: Stephen H. Jenkins
Voice: 702-784-6188
FAX: 702-784-1302
E-mail: jenkins@scs.unr.edu

NEW HAMPSHIRE**University of New Hampshire (UNH)**

Department of Zoology
University of New Hampshire
Durham, NH 03824
750 specimens; regional emphasis (New Hampshire)

Contact: Michelle Scott
Voice: 603-862-2100

NEW JERSEY**Trailside Nature and Science Center (TNSC)**

Division of Parks and Recreation
452 New Providence Road
Mountainside, NJ 07092
136 specimens; exclusively taxidermy mounts

Contact: Hollace Hoffman
Voice: 908-789-3670

NEW MEXICO**Carlsbad Caverns National Park (CACA)**

National Park Service
3225 National Parks Highway
Carlsbad, NM 88220

600 specimens; local emphasis; additional contact: Celia Gomez; former collection acronym: CCNP

Contact: Jeff Denny
Voice: 505-785-2232
FAX: 505-785-2133

Eastern New Mexico University, Natural History Museum (ENMUNHM)

Eastern New Mexico University
Portales, NM 88130

Contact: A. L. Gennaro
Voice: 505-562-2723
FAX: 505-562-2192
E-mail: gennaroa@email.enmu.edu

10,300 specimens; emphasis on eastern New Mexico, south of the Canadian River

New Mexico Environment Department (NMED)

(formerly New Mexico Environmental Improvement Agency, NMEIA)

Vector Control Program

1190 St. Francis Drive

P. O. Box 26110

Santa Fe, NM 87505

160 specimens; primarily rodents involved in plague zoonotic cycle in New Mexico; additional contact: Pamela J. Reynolds, 1191 5th Street, Suite 204, Santa Fe, NM 87505

Contact: Ted L. Brown
Voice: 505-474-4410
FAX: 505-473-3477

New Mexico Museum of Natural History (NMMNH)

1801 Mountain Road NW
Albuquerque, NM 87104

Contact: David J. Hafner
Voice: 505-841-2825
FAX: 505-841-2866
E-mail: hafner@darwin.nmmnh-abq.mus.nm.us

2,500 specimens; frozen-tissue collection (2,000 specimens); excellent series of Nearctic Ochotonidae; additional contact: Jacquelyn G. McConachie (e-mail: jackie@darwin.nmmnh-abq.mus.nm.us); home page: <http://www.aps.edu/htmlpages/nmmnh.html>; ACCREDITED BY ASM (1994)

New Mexico State University (NMSU)

Department of Biology
New Mexico State University
Las Cruces, NM 88003

Contact: Peter Houde

12,045 specimens at last report (Yates et al., 1987); ACCREDITED BY ASM (1977)

Philmont Scout Ranch, Seton Memorial Library (SETON)

Cimarron, NM 87714

Contact: Stephen Zimmer
Voice: 505-376-2281

900 specimens; specimens collected by naturalist Ernest Thompson Seton between 1880-1930

University of New Mexico, Museum of Southwestern Biology (MSB)

Department of Biology
University of New Mexico
Albuquerque, NM 87131

Contact: Terry L. Yates
Voice: 505-277-3838
FAX: 505-277-0304
E-mail: tyates@sevilleta.unm.edu

116,000 specimens; collection includes five holotypes, 73 symbiotypes, and one species color standard; collection emphasizes mammals of the southwestern United States, Mexico, Bolivia, Japan, and Central Africa; frozen-tissue collection (85,000 specimens); contains the Biological Surveys Collection, Fort Collins (BS/FC); additional contacts: Michael A. Bogan (voice: 505-766-3903; e-mail: mbogan@unm.edu), William L. Gannon (voice: 505-277-5340; e-mail: wgannon@unm.edu), Cindy A. Ramotnik (voice: 505-766-2811; e-mail: ramotnik@unm.edu); ACCREDITED BY ASM (1975, 1984, and 1987)

Western New Mexico University (WNMU)

Biology Collection
Western New Mexico University
Silver City, NM 88062

Contact: Randy D. Jennings

4,000 specimens at last report (Yates et al., 1987)

White Sands National Monument (WSNM)

P. O. Box 458
Alamogordo, NM 88310

Contact: *(did not respond to survey)*

50 specimens at last report (Yates et al., 1987)

NEW YORK**American Museum of Natural History (AMNH)**

Central Park West at 79th Street
New York, NY 10024-5192

Contact: Ross D. E. MacPhee
Voice: 212-769-5480
FAX: 212-769-5495
E-mail: macphee@amnh.org

277,480 specimens; collection includes 1,062 holotypes; contains many historically important series, plus many specimens collected in the late 19th and early 20th centuries; contains the Bluntchli Embryological Collection; additional contact: Bryn J. Mader (voice: 212-769-5475; e-mail: mader@amnh.org); ACCREDITED BY ASM (1975 and 1978)

Brooklyn Children's Museum (BCM)

145 Brooklyn Avenue
Brooklyn, NY 11213

Contact: Nancy Paine
Voice: 718-472-5188
FAX: 718-472-5189

80 specimens; exclusively taxidermy mounts; additional contact: Beth Alberty (voice: 718-472-4289)

Buffalo Society of Natural Sciences (BSNS)

Buffalo Museum of Science
1020 Humboldt Parkway
Buffalo, NY 14211-1293

2,158 specimens; primarily local species; contains the former J. J. Reedy Collection (Niagara University)

Contact: Arthur R. Clark
Voice: 716-896-5200
FAX: 716-897-6723

Cornell University, Vertebrate Collections (CUVC)

Section of Ecology and Systematics
Cornell University
Corson Hall
Ithaca, NY 14853-2701

17,500 specimens; frozen-tissue collection (200 specimens); additional contact: Charles M. Dardia (e-mail: cmd7@cornell.edu); former collection acronym: CU; ACCREDITED BY ASM (1975)

Contact: Kevin J. McGowan
Voice: 607-257-8135
FAX: 607-255-8088
E-mail: kjmz@cornell.edu

Mohonk Preserve, Inc. (MP)

(formerly Mohonk Museum, MM)

Daniel Smiley Research Center
1000 Mountain Rest Road
New Platz, NY 12561

200 specimens; local emphasis

Contact: Paul C. Huth
Voice: 914-255-5969

New York State Museum (NYSM)

Mammal Collection, Biological Survey
3140 Cultural Education Center
Albany, NY 12230

11,200 specimens; regional emphasis (New York); large series of complete skeletons of small mammals; contains collection formerly at St. Bonaventure University (STBU); additional contact: Joseph Bopp (voice: 518-486-2025); ACCREDITED BY ASM (1975)

Contact: David W. Steadman
Voice: 518-474-5800
FAX: 518-473-8496

State University of New York at Oneonta (SUNYO)

Biology Department
State University of New York-Oneonta
Oneonta, NY 13820

300 specimens; regional emphasis

Contact: Robert Phillips
Voice: 607-436-3344
FAX: 607-436-3646
E-mail: phill.rr@snyoneva.cc.
oneonta.edu

State University of New York, Roosevelt Wildlife Collection (RWC)

College of Environmental Science and Forestry
State University of New York
1 Forestry Drive
Syracuse, NY 13210

2,900 specimens; local emphasis; additional contact: Larry W. VanDruff (voice: 315-470-6803)

Contact: Ronald J. Giegerich
Voice: 315-470-6763
FAX: 315-470-6934

The University at Albany (SUCEA)

Department of Biological Sciences
State University of New York
Albany, NY 12222

300 specimens; regional emphasis (upstate New York)

Contact: Margaret M. Stewart
Voice: 518-442-4348
FAX: 518-442-4767

NORTH CAROLINA

North Carolina State Museum of Natural Sciences (NCSM)

Mammal Collection

102 North Salisbury Street

Raleigh, NC 27603

8,300 specimens; regional emphasis (North Carolina and southeastern United States); major repository for manatees; specimens from late 1800s; good collection of marine mammals; additional contact: Jeff Beane

Contact: Mary Kay Clark

Voice: 919-733-7450

FAX: 919-733-1573

North Carolina State University (NCS)

Department of Zoology

North Carolina State University

Raleigh, NC 27695-7617

4,150 specimens; regional emphasis

Contact: Roger A. Powell

Voice: 919-515-4561

FAX: 919-515-5327

E-mail: newf@ncsu.edu

University of North Carolina at Wilmington (UNCW)

Vertebrate Collections

Department of Biological Sciences

University of North Carolina at Wilmington

Wilmington, NC 28403-3297

4,200 specimens; regional emphasis (North Carolina); frozen-tissue collection (25 specimens; Sorex)

Contact: W. David Webster

Voice: 910-395-3756

FAX: 910-350-4066

E-mail: webste@vxc.ocis.uncwil.edu

Wake Forest University, Vertebrate Collection (WFUVC)

Department of Biology

Wake Forest University

Winston-Salem, NC 27109

400 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

NORTH DAKOTA

North Dakota Heritage Center (SHSND)

State Historical Society of North Dakota

612 East Boulevard Avenue

Bismarck, ND 58505-0830

196 specimens; primarily taxidermy mounts for exhibit; additional contact: Mark J. Halvorson

Contact: C. L. Dill

Voice: 701-328-2666

FAX: 701-328-3710

North Dakota State University (NDSU)

Department of Zoology

North Dakota State University

Fargo, ND 58105-5517

2,900 specimens; local emphasis

Contact: William J. Bleier

Voice: 701-231-8421

FAX: 701-231-7149

E-mail: bleier@ndsuvml

Northern Prairie Science Center (NPSC)

(formerly Northern Prairie Wildlife Research Center, NPWRC)

National Biological Survey

8711 37 Street, SE

Jamestown, ND 58401

50 specimens; regional emphasis (northern Great Plains)

Contact: Ron Kirby

Voice: 701-252-5363

FAX: 701-252-4217

E-mail: kirbyr@mail.fws.gov

University of North Dakota, Vertebrate Museum (UND)

Department of Biology
 University of North Dakota
 Grand Forks, ND 58202
2,500 specimens at last report (Yates et al., 1987)

Contact: Robert W. Seabloom
 Voice: 701-777-4676
 FAX: 701-777-2623
 E-mail: rseabloo@badlands.nodak.edu

OHIO**Cincinnati Museum of Natural History (CMNH)**

Frederick and Amey Geier Collections and Research Center
 1720 Gilbert Avenue
 Cincinnati, OH 45202-1401
3,300 specimens; mammals of the Ohio Valley; Philippine mammals; frozen-tissue collection (800 specimens); contains collection formerly at the University of Cincinnati (UCIN)

Contact: Robert S. Kennedy
 Voice: 513-345-8510
 FAX: 513-345-8501

Cleveland Museum of Natural History (CMNH)

1 Wade Oval Drive
 University Circle
 Cleveland, OH 44106
15,100 specimens; ACCREDITED BY ASM (1994)

Contact: Timothy O. Matson
 Voice: 216-231-4600
 FAX: 216-231-5919

Dayton Museum of Natural History (DMNH 1)

Biology Collections
 2600 DeWeese Parkway
 Dayton, OH 45414
2,008 specimens; local emphasis

Contact: Gary A. Coovert
 Voice: 513-275-7431, extension 14
 FAX: 513-275-5811

Miami University (MU)

Hefner Zoology Museum
 Department of Zoology
 Miami University
 Oxford, OH 45056
677 specimens; local emphasis

Contact: Paul M. Daniel
 Voice: 513-529-4617
 FAX: 513-529-6900
 E-mail: daniel@msmail.muohio.edu

Ohio Historical Society, Natural History Synoptic Collection (HCNHSC)

1982 Velma Avenue
 Columbus, OH 43211-2497

700 specimens; additional contact: Robert Glotzhober (voice: 614-297-2633)

Contact: Carl Albrecht
 Voice: 614-297-2609
 FAX: 614-297-2411

Ohio State University, Museum of Biological Diversity (OSUMZ)

1315 Kinnear Road
 Ohio State University
 Columbus, OH 43212-1192

4,050 specimens; regional emphasis

Contact: John M. Condit
 Voice: 614-292-0543
 FAX: 614-292-7774
 E-mail: jcondit@magnus.acs.ohio-state.edu

Ohio University, Vertebrate Collection (OUVC)

Department of Biological Sciences
 Ohio University (Irvine 042)
 Athens, OH 45701-2979

1,220 specimens; regional emphasis (southeastern Ohio); frozen-tissue collection (500 specimens)

Contact: Scott M. Moody
 Voice: 614-593-2360
 FAX: 614-593-0300
 E-mail: moody@ouvaxa.cats.ohiou.edu

OKLAHOMA**Cameron University, Museum of Zoology (CUMZ)**

Biology Department
Cameron University
Lawton, OK 73505

Contact: Jack D. Tyler
Voice: 405-581-2349
FAX: 405-581-2421

1,200 specimens; regional emphasis (southeastern Oklahoma and Black Mesa area of Oklahoma)

East Central University (ECENT)

Department of Biology
East Central University
Ada, OK 74820-6899

Contact: Larry L. Choate
Voice: 405-332-8000, extension 499
FAX: 405-332-4616
E-mail: lchoate@mailclerk.ecok.edu

490 specimens; local emphasis; former collection acronym: ECUM

Northeastern State University, Biological Collections (NSU)

Science Building
Northeastern State University
Tahlequah, OK 74464

Contact: *(did not respond to survey)*

1,200 specimens at last report (Yates et al., 1987)

Oklahoma Baptist University, Webster Natural History Museum (WNHM)

500 West University
Oklahoma Baptist University
Shawnee, OK 74801

Contact: *(did not respond to survey)*

400 specimens at last report (Yates et al., 1987)

Oklahoma State University, Collection of Vertebrates (OSU)

Department of Zoology
Oklahoma State University
Stillwater, OK 74078

Contact: Anthony A. Echelle
Voice: 405-744-9681
FAX: 405-744-7824

12,893 specimens; collection includes one holotype; frozen-tissue collection (2,479 specimens); contains former collection of Wichita Mountains National Wildlife Refuge (WMWR); additional contacts: Geffery Luttrell and Jim Shaw (voice: 405-744-9675; e-mail: shawjh@okway.okstate.edu)

University of Central Oklahoma, Collection of Vertebrates (UCOCV)

(formerly Central State University, CSUO)
Biology Department
University of Central Oklahoma
Edmond, OK 73034

Contact: William Caire
Voice: 405-341-2980, extension 2722
FAX: 405-330-3824

3,600 specimens; local emphasis

University of Oklahoma, Oklahoma Museum of Natural History (OMNH)

University of Oklahoma
1335 Asp Avenue
Norman, OK 73019-0606

Contact: Michael A. Mares
Voice: 405-325-4712
FAX: 405-325-7699

32,000 specimens; special strengths in mammals of Oklahoma, Mexico, and South America; additional contact: Janet K. Braun; former collection acronym: OU; ACCREDITED BY ASM (1975 and 1982)

OREGON**Crater Lake National Park Museum Collection (CLNP)**

P. O. Box 7
Crater Lake, OR 97604

Contact: Mary Benterou
Voice: 503-594-2211, extension 406
FAX: 503-594-2299

330 specimens; local emphasis (Crater Lake National Park and vicinity)

Eastern Oregon State College, Vertebrate Museum (EOSCVM)

Badgley Hall
Eastern Oregon State College
1410 L Avenue
La Grande, OR 97850-2899

Contact: Burr J. Betts
Voice: 503-962-3330
FAX: 503-962-3873
E-mail: bbetts@eosc.osshe.edu

749 specimens; regional emphasis (northeastern Oregon); former collection acronym: EOSC

Oregon State University, Department of Fisheries and Wildlife Mammal Collection (OSUFW)

Oregon State University
Corvallis, OR 97331-3803

Contact: Bruce Coblentz
Voice: 503-737-1959
FAX: 503-737-3590
E-mail: coblentb@ccmail.orst.edu

11,000 specimens; regional emphasis; contains former Alex Walker Collection; additional contact: Douglas Markle (voice: 503-737-1970; e-mail: markled@ccmail.orst.edu); ACCREDITED BY ASM (1975 and 1979)

Portland State University, Collection of Vertebrates (PSU)

Department of Biology
Portland State University
Portland, OR 97207

Contact: Richard Forbes

2,600 specimens at last report (Yates et al., 1987)

Southern Oregon State College, Museum of Vertebrate Natural History (SOSCMVNH)

Department of Biology
Southern Oregon State College
Ashland, OR 97520

Contact: Stephen P. Cross
Voice: 503-552-6749
FAX: 503-552-6415
E-mail: scross@shasta.sosc.osshe.edu

2,575 specimens; regional emphasis

University of Oregon, Museum of Natural History (UOMNH)

1224 University of Oregon
Eugene, OR 97403-1224

Contact: Don E. Dumond
Voice: 503-346-5101
FAX: 503-346-5122

3,000 specimens; contains collection of Peromyscus flat skins formerly in the Department of Zoology, University of Oregon; additional contact: Pamela Endzweig (voice: 503-346-5120; e-mail: endzweig@oregon.uoregon.edu)

Willamette University (WUME)

Department of Biology
Willamette University
900 State Street
Salem, OR 97301

Contact: *(did not respond to survey)*

Number of specimens not reported in prior survey (Yates et al., 1987)

PENNSYLVANIA

Academy of Natural Sciences of Philadelphia (ANSP)

Department of Vertebrate Biology
1900 Benjamin Franklin Parkway
Philadelphia, PA 19103-1195

23,000 specimens; collection includes 195 holotypes; contains historically important series; large mammals of Tibet; African bovids; Neotropical carnivores and primates; includes Wistar Institute and S. N. Rhoads Collections; additional contact: Ted Daeschler (voice: 215-299-1133; e-mail: daeschler@say.acnatsci.org)

Contact: Curator of Mammals
Voice: 215-299-1078
FAX: 215-299-1028

Carnegie Museum of Natural History (CM)

Edward O'Neil Research Center
5800 Baum Boulevard
Pittsburgh, PA 15206-3706

113,994 specimens; collection includes 31 holotypes; contains many historically important series; large holdings of mammals from northeastern United States, eastern Arctic, Africa, Suriname, and Brazil; includes former Wayne H. Davis Collection; frozen-tissue collection (14,000 specimens); additional contact: Suzanne B. McLaren (voice: 412-665-2615; e-mail: mclarens@clpgh.org); ACCREDITED BY ASM (1975 and 1984)

Contact: Duane A. Schlitter
Voice: 412-665-2613
FAX: 412-665-2751
E-mail: schlitterd@clpgh.org

Pennsylvania State University (PSU)

School of Forest Resources Bird and Mammal Collection
Pennsylvania State University
University Park, PA 16802

2,027 specimens; primarily taxidermy mounts; regional emphasis (Pennsylvania); additional contact: Carolyn G. Mahan (voice: 814-865-1132; e-mail: cgm2@psuvm.psu.edu)

Contact: Richard H. Yahner
Voice: 814-863-3201
FAX: 814-865-3725
E-mail: rhy@psuvm.psu.edu

Reading Public Museum (RPM)

500 Museum Road
Reading, PA 19611-1425

3,377 specimens; collection includes one holotype

Contact: Michael A. Feyers
Voice: 610-320-8290
FAX: 610-371-5632

Shippensburg University, Vertebrate Museum (SUVM)

1871 Old Main Drive
Shippensburg University
Shippensburg, PA 17257

26,500 specimens; important collections from Adirondack Mountains (New York), Pennsylvania, West Virginia, Utah, and Virginia; good series of soricids; additional contact: James A. Hart (voice: 717-532-1145); ACCREDITED BY ASM (1977 and 1987)

Contact: Gordon L. Kirkland, Jr.
Voice: 717-532-1407
FAX: 717-530-4009
E-mail: glkirk@ark.ship.edu

State Museum of Pennsylvania (WPMM)

William Penn Memorial Building
P. O. Box 1026
Harrisburg, PA 17108-1026

1,088 specimens; regional emphasis (Pennsylvania)

Contact: Albert G. Mehring
Voice: 717-783-9901
FAX: 717-783-1073

Wagner Free Institute of Science (WFIS)

Museum of the Wagner Free Institute of Science
1700 West Montgomery Avenue
Philadelphia, PA 19121-3227

Contact: Eugene A. Bolt, Jr.

Voice: 215-763-6529

FAX: 215-763-1299

E-mail: eaboltjr@dolphin.upenn.edu

200 specimens; the Joseph Leidy "Systematics Collection" (1889) is a National Historic Landmark

PUERTO RICO**University of Puerto Rico (PRICO)**

Department of Biology
University of Puerto Rico
Mayaguez, PR 00708

Contact: *(did not respond to survey)*

206 specimens at last report (Yates et al., 1987)

University of Puerto Rico, Caribbean Primate Research Center Museum (CPRC)

Medical Sciences Campus
University of Puerto Rico
San Juan, PR 00936-5067

Contact: Jean Turnquist

Voice: 809-753-8656

FAX: 809-767-0788

3,100 specimens; exclusively primates; skeletons of Macaca mulatta from Cayo Santiago; includes Cayo Santiago skeleton collection from Northwestern University; additional contact: Nancy Hong

RHODE ISLAND**Roger Williams Park Museum of Natural History (RWPM)**

(formerly Park Museum, PMRI)
Roger Williams Park
Providence, RI 02905

Contact: Marilyn R. Massaro

Voice: 401-785-9451

FAX: 401-941-5920

200 specimens; local emphasis

University of Rhode Island, Mammal Collection (URIMC)

Department of Natural Resources Science
University of Rhode Island
Kingston, RI 02881

Contact: Peter August

Voice: 401-792-4794

FAX: 401-792-4561

1,469 specimens; regional emphasis (Rhode Island)

E-mail: pete@edcserv.edc.uri.edu

SOUTH CAROLINA**Charleston Museum (CHM)**

121 Rutledge Avenue
Charleston, SC 29401

Contact: *(did not respond to survey)*

1,425 specimens (including three holotypes) at last report (Yates et al., 1987)

Clemson University, Vertebrate Collections (CUSC)

132 Long Hall
Clemson University
Clemson, SC 29634-1903

Contact: Stanlee Miller

Voice: 803-656-3456

FAX: 803-656-0435

2,653 specimens; local emphasis; ACCREDITED BY ASM (1986)

SOUTH DAKOTA

Henry Brockhouse Collection (HBC)

2304 West Madison
Sioux Falls, SD 57102
55 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Pettigrew Museum (PMSD)

Sioux Falls, SD 57102
30 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Siouxland Heritage Museum (SHM)

200 West 6th Street
Sioux Falls, SD 57102
125 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

W. H. Over State Museum (USDAK)

414 East Clark Street
Vermillion, SD 57069
100 specimens; exclusively taxidermy mounts; local emphasis

Contact: Cleo Kusters
Voice: 605-677-5228

South Dakota State University (SDAKS)

Mammalogy Teaching Collection
Department of Biology and Microbiology
South Dakota State University
Brookings, SD 57007
1,850 specimens; primarily taxidermy mounts; local emphasis

Contact: Keith Morrill
Voice: 605-688-4555

University of South Dakota (USD)

Natural History Collection
Department of Biology
Vermillion, SD 57069
1,565 specimens; regional emphasis (South Dakota); frozen-tissue collection (300 specimens)

Contact: Curator of Mammals
Voice: 605-677-6567
FAX: 605-677-6557

N. R. Whitney Collection (NRWC)

633 South Berry Pines Road
Rapid City, SD 57702
310 specimens; local emphasis

Contact: Nathaniel R. Whitney
Voice: 605-343-2401

Wind Cave National Park (WICA)

Route 1, Box 190-WCNP
Hot Springs, SD 57747
70 specimens; local emphasis

Contact: Ron Terry
Voice: 605-745-4600
FAX: 605-745-4207

TENNESSEE

Great Smoky Mountains National Park (GRSM)

107 Park Headquarters Road
Gatlinburg, TN 37738

Contact: Kathleen L. Manscill
Voice: 615-436-1295
FAX: 615-436-1220

500 specimens; local emphasis (mammals of Great Smoky Mountains National Park)

Tennessee Wildlife Resources Agency (TWRA)

Ellington Agricultural Center

P. O. Box 40747

Nashville, TN 37204

Size of collection not reported; exclusively taxidermy mounts

Contact: Dave Woodward

Voice: 615-781-6502

FAX: 615-741-4606

University of Memphis, Mammal Collection (UM)

Department of Biology

University of Memphis

Memphis, TN 38152

18,000 specimens; ACCREDITED BY ASM (1976)

Contact: Michael L. Kennedy

Voice: 901-678-2581

University of Tennessee, Museum of Zoology (UTMZ)

Department of Zoology

University of Tennessee

Knoxville, TN 37916

650 specimens; frozen-tissue collection (size not reported); additional contact: Greg Anderson (voice: 615-974-6188; e-mail: ganderso@utkvx.bitnet)

Contact: Gary McCracken

Voice: 615-974-6041

FAX: 615-974-0978

TEXAS

Abilene Christian University, Natural History Collection (ACUNHC)

Department of Biology

Abilene Christian University

Abilene, TX 79699

220 specimens; local emphasis; frozen-tissue collection (150 specimens)

Contact: Thomas E. Lee, Jr.

Voice: 915-674-2574

FAX: 915-674-2009

E-mail: leet@nicanor.acu.edu

Angelo State Natural History Collection (ASNHC)

Department of Biology

Angelo State University

San Angelo, TX 76909

9,400 specimens; good holdings of specimens from westcentral Texas and Yucatan Peninsula, Mexico; frozen-tissue collection (1,400 specimens); former acronym: ASVRC; ACCREDITED BY ASM (1992)

Contact: Robert C. Dowler

Voice: 915-942-2189

FAX: 915-942-2229

E-mail: robert.dowler@mailserv.angelo.edu

Austin College (ACTC)

Department of Biology

Austin College

Sherman, TX 75090

275 specimens; local emphasis

Contact: Steven Goldsmith

Voice: 903-813-2204

E-mail: sgoldsmith@ausing.edu

Baylor University, Strecker Museum (SM)

George W. Carroll Mammal Collection

Baylor University

Waco, TX 76798

*1,400 specimens at last report (Yates et al., 1987)*Contact: *(did not respond to survey)*

Dallas Museum of Natural History (DMNH)

3535 Grand Avenue (Fair Park)
Dallas, TX 75226

Contact: Alex W. Barker
Voice: 214-421-3466
FAX: 214-428-4356
E-mail: abarker@sun.cis.smu.edu

580 specimens; primarily taxidermy mounts; regional emphasis; includes Herb Klein Collection of trophy mounts and collection formerly at Southern Methodist University (SMU); additional contact: Gail Manning (voice: 214-421-3466, extension 232); ACCREDITED BY ASM (1980)

Davis Mountains State Park (DMSP)

Davis Mountains State Park Interpretive Center
Box 786
Fort Davis, TX 79734
30 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Fort Worth Museum of Science and History (FWMSH)

Fort Worth Museum of Science and History Collections
1501 Montgomery Street
Fort Worth, TX 76107
2,100 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Hardin-Simmons University, Collection of Vertebrates (HSUCV)

Department of Biology
Drawer N, HSU Station
Hardin-Simmons University
Abilene, TX 79698

Contact: Allan J. Landwer
Voice: 915-670-1502
FAX: 915-670-1390
E-mail: alandwer@aol.com

331 specimens; regional emphasis (primarily Taylor, Jones, and Callahan counties, Texas); former collection acronym: HSIMU

Midwestern State University (MWSU)

Collection of Recent Mammals
Department of Biology
Midwestern State University
Wichita Falls, TX 76308

Contact: Frederick B. Stangl, Jr.
Voice: 817-689-4408
FAX: 817-689-4442
E-mail: stanglf@nexus.mwsu.edu

20,020 specimens; regional emphasis (primarily Trans-Pecos, Panhandle, and northcentral regions of Texas); ACCREDITED BY ASM (1975 and 1988)

Pan American University, Mammal Collection (PAUMC)

Department of Biology
Pan American University
Edinburg, TX 78539
750 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Panhandle-Plains Historical Museum (PPHM)

Natural History Collections
Box 967, WT Station
Canyon, TX 79016
225 specimens at last report (Yates et al., 1987)

Contact: A. J. Taylor
Voice: 806-656-2259

Sam Houston State University, Vertebrate Natural History Collection (SHSU)

Department of Biological Sciences
 Sam Houston State University
 Huntsville, TX 77341
 650 specimens; local emphasis

Contact: Monte Thies
 Voice: 409-294-3746
 FAX: 409-294-3822
 E-mail: bio_mlt@shsu.edu

Sul Ross State University (SRSU)

Vertebrate Collection
 Department of Biology
 Sul Ross State University
 Alpine, TX 79832
 2,797 specimens; regional emphasis

Contact: Curator of Mammals
 Voice: 915-837-8112
 FAX: 915-837-8046

Tarleton State University, Tarleton State Collection (TSC)

Department of Biological Science
 Tarleton State University
 Stephenville, TX 76402
 1,000 specimens at last report (Yates et al., 1987)

Contact: Philip D. Sudman
 Voice: 817-968-9154
 FAX: 817-968-9157
 E-mail: sudman@vms.tarleton.edu

Texas A&I University, Texas A&I Collections (TAIU)

Texas A&I University
 Box 158
 Kingsville, TX 78363
 1,200 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

Texas A&M University, Texas Cooperative Wildlife Collection (TCWC)

Department of Wildlife and Fisheries Sciences
 Texas A&M University
 College Station, TX 77843

Contact: Rodney L. Honeycutt
 Voice: 409-847-9462
 FAX: 409-845-4096
 E-mail: rhoneycutt@tamu.edu

56,500 specimens; collection includes 39 holotypes; major emphases in mammals of Texas, Mexico, and Central America; frozen-tissue collection (5,000 specimens); includes former collection of University of North Texas (NTSU—formerly North Texas State University); additional contact: George D. Baumgardner (voice: 409-845-5783; FAX: 409-845-5786; e-mail: g-baumgardner@tamu.edu); ACCREDITED BY ASM (1975 and 1984)

Texas Tech University, Museum of Texas Tech University (TTU)

Natural Science Research Laboratory
 Texas Tech University
 Box 43191
 Lubbock, TX 79409-3191

Contact: Robert J. Baker
 Voice: 806-742-2485
 FAX: 806-742-1136
 E-mail: bjrjb@ttacs.ttu.edu

70,000 specimens; collection includes 13 holotypes; noteworthy holdings of southwestern rodents and Neotropical bats; Chernobyl specimens; frozen-tissue collection (50,000 specimens); additional contact: Richard Monk (voice: 806-742-2486); home page: www.nsrl.ttu.edu; ACCREDITED BY ASM (1975 and 1983)

Texas Wesleyan College, Museum of Zoology (TWC)

Texas Wesleyan College
 Fort Worth, TX 76105
 429 specimens at last report (Yates et al., 1987)

Contact: (did not respond to survey)

University of Mary Hardin-Baylor (UMHB)

Collection of Mammals
 Department of Biology
 University of Mary Hardin-Baylor
 Belton, TX 76513
 415 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

University of Texas at Arlington (UTA)

Collection of Vertebrates
 Department of Biology
 University of Texas
 Arlington, TX 76019
 2,500 specimens; regional emphasis; former collection acronym: UTACV

Contact: J. A. Campbell
 Voice: 817-273-2406
 FAX: 817-273-2855
 E-mail: campbell@albert.uta.edu

University of Texas at Austin, Laboratory of Physical Anthropology (UTLPA)

Department of Anthropology
 University of Texas
 Austin, TX 78712-1086

Contact: Liza Shapiro
 Voice: 512-471-7533
 FAX: 512-471-6535
 E-mail: liza.shapiro@mail.utexas.edu

270 specimens; important skeleton collection of Papio; additional contacts: Claud Bramblett and John Kappelman (voice: 512-471-4206)

University of Texas at Austin, Texas Natural History Collection (TNHC)

University of Texas
 2400 Trinity Street
 Austin, TX 78705

Contact: Carol K. Malcolm
 Voice: 512-471-8845
 FAX: 512-471-9775
 E-mail: cmalcolm@utxvms.cc.utexas.edu

8,000 specimens; regional emphasis (Texas); ACCREDITED BY ASM (1976)

University of Texas at Austin, Vertebrate Paleontology Lab (TMM)

J. J. Pickle Research Campus
 University of Texas
 Austin, TX 78712

Contact: Ernest Lundelius
 Voice: 512-471-6087
 FAX: 512-471-5973
 E-mail: mcwinans@bongo.cc.utexas.edu

7,200 specimens; emphasis on skeletal material; regional emphasis (Texas); Australian marsupials; additional contact: Melissa C. Winans

University of Texas at El Paso, Centennial Museum (UTEP)

Mammal Division
 Laboratory for Environmental Biology
 University of Texas
 El Paso, TX 79968-0519

Contact: Arthur H. Harris
 Voice: 915-747-6985 or 747-6835
 FAX: 915-747-5808
 E-mail: ai01%utep@utepvm.ep.utep.edu

8,407 specimens; emphasis on mammals of southwestern United States; ACCREDITED BY ASM (1977)

Wayland University (WU)

Llano Estacado Museum
 Plainview, TX 79072
 1,125 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Welder Wildlife Foundation (WWF)

P. O. Box 1400
Sinton, TX 78387
1,060 specimens; regional emphasis (southern Texas)

Contact: Selma Glasscock
Voice: 512-364-2643
FAX: 512-364-2650

West Texas A&M University Natural History Collection (WTSU)

Department of Biology and Geosciences
West Texas A&M University
Canyon, TX 79016
2,498 specimens; regional emphasis (Texas Panhandle)

Contact: Kathleen Blair
Voice: 806-656-2568
FAX: 806-656-2928
E-mail: kblair@wtamu.edu

Witte Memorial Museum (WMM)

San Antonio Museum Association
P. O. Box 2601
San Antonio, TX 78299
273 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

UTAH**Brigham Young University, Monte L. Bean Life Science Museum (BYU)**

Brigham Young University
Provo, UT 84602-0200

Contact: Duke S. Rogers
Voice: 801-378-5491
FAX: 801-378-3733
E-mail: rogersd@acd1.byu

15,500 specimens; collection emphasizes mammals of Utah and Nevada (especially Nevada test site); includes collection formerly at Utah State University (USU); frozen-tissue collection (2,800 specimens); additional contact: H. Duane Smith (e-mail: duane@museum.byu.edu); ACCREDITED BY ASM (1991)

Bryce Canyon National Park (BCNP)

National Park Service Museum Collections
Bryce Canyon, UT 84717
150 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Cedar Breaks National Monument (CBNM)

Biological Collections
P. O. Box 749
Cedar City, UT 84720
25 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Dinosaur Natural History Museum (DNHM)

Natural History Collections
235 East Main
Vernal, UT 84078
155 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Dixie College, Natural History Museum (DIX)

Natural Sciences
Dixie College
St. George, UT 84770
785 specimens; local emphasis

Contact: Andrew H. Barnum
Voice: 801-652-7771
E-mail: barnum@cc.dixie.edu

National Park Service (NBNM)

Arches National Park, Canyonlands National Park, and
Natural Bridges National Monument Collections
Southeast Utah Group
2282 S. West Resource Boulevard
Moab, UT 84532-8000

Contact: Vicki B. Webster
Voice: 801-259-3911, extension 2136
FAX: 801-259-8628

128 specimens; local emphasis (within National Park boundaries); additional contact: Nancy Coulam

Timpanogos Cave National Monument (TCNM)

RR 3, Box 200
American Fork, UT 84003

Contact: Rodney D. Horrocks
Voice: 801-756-5239
FAX: 801-756-5661

18 specimens; local emphasis (within National Monument boundaries)

University of Utah, Utah Museum of Natural History (UMNH)

University of Utah
Salt Lake City, UT 84112

Contact: Eric A. Rickart
Voice: 801-581-6927
FAX: 801-585-3684
E-mail: rickart@geode.umnh.utah.edu

29,400 specimens; collection includes 40 holotypes; emphasis on intermountain west, particularly Utah; includes former Environmental Laboratory and Dugway Proving Grounds collections; former collection acronym: UIU; ACCREDITED BY ASM (1975 and 1993)

Utah Field House of Natural History State Park (UFHNS)

235 East Main
Vernal, UT 84078

Contact: Sue Ann Bilbey
Voice: 801-789-3799
FAX: 801-789-4883

150 specimens; local emphasis; additional contact: Alden H. Hamblin

Weber State University, Bird and Mammal Collection (WSU)

(formerly Weber State College, WEBSC)
Department of Zoology
Weber State University
Ogden, UT 84408-2505

Contact: Samuel I. Zeveloff
Voice: 801-626-6655
FAX: 801-626-7445
E-mail: szevelof@scinet.weber.edu

2,042 specimens; local emphasis; additional contact: Ron Meyers (voice: 801-626-6170)

Zion National Park (ZNP)

Zion National Park Museum Collection
Springdale, UT 84767-1099
230 specimens; local emphasis

Contact: Denny Davies
Voice: 801-772-3256
FAX: 801-772-3426

VERMONT**Fairbanks Museum and Planetarium Collection (FMPC)**

Main and Prospect Streets
St. Johnsbury, VT 05819

Contact: Howard B. Reed, Jr.
Voice: 802-748-2372
FAX: 802-748-3347

250 specimens; emphasis on New England species; historically important series of taxidermy mounts; includes Hood Museum and Franklin Fairbanks collections; additional contact: Stephen H. Amos; former collection acronym: FMNS

Lyndon State College, Mammal Collection (VSC-L)

Department of Science
Lyndon State College
Lyndonville, VT 05851

Contact: Donald H. Miller
Voice: 802-626-9371, extension 246
E-mail: millerd@queen.lsc.vsc.edu

350 specimens; exclusively taxidermy mounts (with skulls); local emphasis

Montshire Museum of Science (MMS)

P. O. Box 770
Norwich, VT 05055

Contact: Joan Waltermire
Voice: 802-649-2200
FAX: 802-649-3637
E-mail: linda.levin@valley.net

Size of collection not reported (collection currently in storage)

University of Vermont, Zaddock Thompson Natural History Collections (ZTNH)

Department of Zoology
University of Vermont
Burlington, VT 05405-0086

Contact: C. William Kilpatrick
Voice: 802-656-0453
FAX: 802-656-2914
E-mail: wkilpatr@moose.uvm.edu

9,000 specimens; frozen-tissue collection (7,500 specimens); includes Harold B. Hitchcock Collection and Montshire Museum Collection (part); former acronym: UVMZ

Vermont Fish and Wildlife Department (VFWD)

Addison Collection
Dead Creek Refuge
RD 1, Box 1175
Vergennes, VT 05491

Contact: John Campbell
Voice: 802-759-2398

225 specimens; local emphasis; additional contact: Tom Myers (voice: 802-878-1564; FAX: 802-879-3871)

VIRGINIA**Virginia Commonwealth University (VCU)**

Mammal Collection
Department of Biology
Virginia Commonwealth University
Richmond, VA 23284-2012

Contact: John F. Pagels
Voice: 804-828-1562
FAX: 804-828-0503

11,600 specimens; local emphasis (small mammals of the mid-Atlantic region)

Virginia Museum of Natural History (VMNH)

1001 Douglas Avenue
Martinsville, VA 24112

Contact: Nancy D. Moncrief
Voice: 540-666-8614
FAX: 540-632-6487
E-mail: moncrief@amazon.evsc.virginia.edu

1,584 specimens; frozen-tissue collection (1,000 specimens)

Virginia Polytechnic University, Mammal Museum (VPIMM)

Virginia Polytechnic Institute and State University
Biology Department
Blacksburg, VA 24061

Contact: (did not respond to survey)

600 specimens at last report (Yates et al., 1987)

WASHINGTON**National Marine Mammal Laboratory (NMML)**

Osteological Collection
7600 Sand Point Way NE
Seattle, WA 98115

Contact: Bob DeLong
Voice: 206-526-4038
FAX: 206-526-6615
E-mail: delong@afsc.noaa.gov

1,709 specimens; collection emphasizes marine mammals of the northern Pacific; includes the former John G. Sinclair Collection; additional contact: James R. Thomason (voice: 206-526-6681; FAX: 206-526-6615; e-mail: thomason@afsc.noaa.gov); former collection acronym: NMFS

Olympic National Park (ONP)

600 East Park Avenue
Port Angeles, WA 98362

Contact: Susan Schultz
Voice: 360-452-4501

~~100 specimens; regional emphasis (Olympic Peninsula, Washington)~~

University of Puget Sound, James R. Slater Museum of Natural History (PSM)

University of Puget Sound
Tacoma, WA 98416-0360

Contact: Dennis R. Paulson
Voice: 206-756-3798
E-mail: dpaulson@ups.edu

28,000 specimens; collection includes two holotypes; regional emphasis (northwestern United States); repository for Canis rufus specimens; additional contact: Gary W. Shugart (voice: 206-756-3356; e-mail: gshugart@ups.edu); ACCREDITED BY ASM (1975)

University of Washington, Thomas Burke Memorial Washington State Museum (UWBM)

DB-10, University of Washington
Seattle, WA 98195

Contact: G. J. Kenagy
Voice: 206-616-1781
FAX: 206-685-3039
E-mail: kenagy@u.washington.edu

40,000 specimens; collection includes one holotype; emphasis on northwestern North America; includes former E. S. Booth Collection (BC) and Walla Walla College Collection (WWC); frozen-tissue collection (1,500 specimens); additional contact: John Rozdilsky (voice: 206-685-7417; e-mail: jrozdil@u.washington.edu); former collection acronym: UW-WSM; ACCREDITED BY ASM (1975)

Washington Game Department (WGD)

600 North Capitol Way
Olympia, WA 98501
200 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Washington State University, Charles R. Conner Museum (CRCM)

Washington State University
Pullman, WA 99164-4236

Contact: Richard E. Johnson
Voice: 509-335-1977 or 335-3553
FAX: 509-335-3517

32,500 specimens; collection emphasizes northwestern North America; includes former Iroven O. Buss Collection (IOBC); additional contact: Kevin Pullen (voice: 509-335-3515); ACCREDITED BY ASM (1977)

Whitman College (WCW)

Biology Department
Whitman College
Walla Walla, WA 99362
2,750 specimens; regional emphasis

Contact: Charles M. Drabek
Voice: 509-527-5227
FAX: 509-527-5904
E-mail: in%"drabek@whitman.edu

WEST VIRGINIA

Marshall University, West Virginia Mammal Survey (WVMS)

N. B. Green Vertebrate Collections
 Department of Biological Sciences
 Marshall University
 Huntington, WV 25755

6,424 specimens; regional emphasis (West Virginia)

Contact: Mary Etta Hight
 Voice: 304-696-6692
 FAX: 304-696-3243
 E-mail: hight@marshall.edu

WISCONSIN

Jay S. Haft Collection (JSHC)

Department of Anatomy
 Medical College of Wisconsin

561 North 15th Street, Milwaukee, WI 53233

200 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

University of Wisconsin, Milwaukee, Department of Anthropology (UWMA)

University of Wisconsin
 Milwaukee, WI 53201

625 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

University of Wisconsin, Milwaukee, Department of Biological Sciences (UWMIL)

University of Wisconsin
 Milwaukee, WI 53201

50 specimens; local emphasis; additional contact: Keith Chipman (voice: 414-229-4558)

Contact: Donna Van Wynesburghe
 Voice: 414-229-4214

University of Wisconsin, Stevens Point, Museum of Natural History (UWSP)

Mammal Collection
 University of Wisconsin
 Stevens Point, WI 54481

8,200 specimens; regional emphasis (Wisconsin); PROVISIONALLY ACCREDITED BY ASM (1994)

Contact: Charles A. Long
 Voice: 715-346-2455

University of Wisconsin, Zoological Museum (UWZM)

250 North Mills Street
 University of Wisconsin
 Madison, WI 53706

24,000 specimens; collection includes one holotype; many historically important series; placentae and fetal material; frozen-tissue collection (2,500 specimens); includes former W. B. Quay Collection, Harland W. Mossman Collection, and Milton College Collection; additional contact: E. Elizabeth Pillaert (e-mail: pillaert@macc.wisc.edu); former collection acronym: UWZ; ACCREDITED BY ASM (1975 and 1983)

Contact: Frank A. Iwen
 Voice: 608-262-3766 or 262-3159
 FAX: 608-262-5395
 E-mail: uwzmiwen@macc.wisc.edu

WYOMING

Casper College (CCW)

Biology Department
 Casper College
 Casper, WY 82601

700 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Grand Teton National Park (GTNP)

Box 67
Moose, WY 83012
24 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

Teton Science School (TSSMC)

Murie Museum
P. O. Box 68
Kelly, WY 83011
3,100 specimens; historically important collections of Olaus and Adolph Murie

Contact: John McLaughlin
Voice: 307-733-4765
FAX: 307-739-9388

Werner Wildlife Museum (WWM)

~~Mammal Collection~~
405 East 15th Street
Casper, WY 82061
250 specimens at last report (Yates et al., 1987)

Contact: *(did not respond to survey)*

VENEZUELA

Colección de Mastozoología (MHNLS)

Edificio Fundación La Salle
Avenida Boyaca Mariperez
Apartado 1930
Caracas 1010-A, Venezuela
11,000 specimens; collection includes 12 holotypes of Venezuelan mammals

Contact: Belkis Rivas
Voice: 582-782-8711
FAX: 582-793-7493

Museo de la Estación Biológica de Rancho Grande (EBRG)

MARNR-PROFAUNA
Apartado 184
Maraca y 2101-A
Estado Aragua, Venezuela
20,000 specimens; mostly Venezuelan mammals; additional contact: Francisco Bisbal

Contact: Javier Sanchez
Voice and FAX: 58-4-383-8264

Universidad Central de Venezuela (MBUCV)

Museo de Biología
Apartado 47058
Caracas 1041-A, Venezuela
5,264 specimens; collection emphasizes Venezuelan mammals; additional contact: Carmen Ferrira

Contact: Roger Perez Hernandez
Voice: 58-2-662-7895
E-mail: rperez@dino.conicit.ve

Universidad de Los Andes (CVULA)

Colección de Vertebrados
Facultad de Ciencias, La Hechicera
Universidad de Los Andes
Merida 5101, Venezuela
8,500 specimens; mostly bats and rodents from eastern Venezuela; additional contacts: Jaime Pefaur (pefaur@ciens.ula.ve) and Jesus Molinari (molinari@ciens.ula.ve)

Contact: P. Soriano M.
Voice: 58-74-401305
FAX: 58-74-401280
E-mail: soriano@ciens.ula.ve

APPENDIX I

LATIN AMERICAN COLLECTIONS THAT DID NOT RESPOND TO THIS SURVEY

Latin American collections known (or presumed) to exist for which no survey response was received. We invite the persons responsible for these collections to contact the chair of the ASM Systematic Collections Committee so that their collections will be included in the next listing.

ARGENTINA

Centro Nacional Patagónico (CNP), 28 de Julio 28, 9120 Puerto Madryn, Chubut, Argentina

Colección de Mamíferos de Elio Massoia y Flia (CEMF), Avenida Angel Gallardo 470, Casilla de Correo 220, 1405 Buenos Aires, Argentina

Museo de Ciencias Naturales y Centro de Investigación, Instituto del Profesorado "Antonio R. de Montoya," San Luis 384, 3300 Posadas, Misiones, Argentina

Museo de Historia Natural de San Rafael, San Rafael, Mendoza, Argentina

Museo de la Patagonia, Colección mastozoológica, 8400 San Carlos de Bariloche, Río Negro, Argentina

Museo de Ciencias Naturales "Juan Forester," 3384 Monte Carlo, Misiones, Argentina

Museo de Ciencias Naturales, Universidad Nacional de Salta, 4400 Salta, Argentina

Museo de Ciencias Naturales de Azul (MCNA), Olavarría 369, 7300 Azul, Buenos Aires, Argentina

BELIZE

Belize College of Arts, Science and Technology (BELCAST), Belize City, Belize

BOLIVIA

Museo de Historia Natural "Dr. Mario Deheza N." (MHNMD), Universidad Mayor de San Francisco Xavier, Casilla 212, Sucre, Bolivia

BRAZIL

Coleção Adriano L. Peracchi, Instituto de Biologia, Universidad Rural, 23460 Seropédica, Rio de Janeiro, Brasil

Coleção Deoclécio Guerra (DG), Departamento Biologia, Universidad Federal de Pernambuco, Cidade Universitaria, 50000 Recife, Pernambuco, Brasil

Coleção Privado de Estanislau Kostka Pinto de Silveira, c/o Maria Consuelo P. da Silveira, Rua Evaristo da Veiga, 45/302 Cinelândia, 20,000 Rio de Janeiro, Brasil

Departamento dos Mamíferos Aquaticas, Instituto Nacional de Pesquisas da Amazônia, 69000 Manaus, Amazonas, Brasil

Museu "Ángelo Moreira da Costa Lima," Avenida Feliciano Coelho 1509, 68900 Macapá, Amapá, Brasil

Museu Paraense "Emílio Goeldi" (MPEG), Caixa Postal 399, 66.040 Belém, Pará, Brasil

Universidade Estadual de Campinas (ZUEC), Zoologia, Caixa Postal 1170, Campinas 13100, São Paulo, São Paulo, Brasil

APPENDIX I.— *Continued.*

Universidade Estadual Paulista (UNESP), Departamento de Zoologia, Instituto de Biociências,
1500100 São José do Rio Preto, São Paulo, Brasil

Museu de Historia Natural, Mastozoologia, Bosque de Jequitibas, 13.100 Campinas, São Paulo,
Brasil

Universidade Federal de Paraiba, Departamento Biologia, Campus Universitario, 58000 João Pessoa,
Paraiba, Brasil

Universidade do Vale do Rio dos Sinos, Museu de Zoologia da UNISINOS, Avenida Unisinos 950,
Caixa Postal 275, 93.000 São Leopoldo, Rio Grande do Sul, Brasil

COLOMBIA

Museo de Ciencias Naturales del Colegio de San José, Apartado Aereo 1180, Medellín, Antioquia,
Colombia

Museo Departamental de Historia Natural, Mastozoología, Apartado Aereo 5621, Cali, Colombia

Museo del Instituto de La Salle, Calle 11, Numero 1-69, Apartado Aereo 27389, Santa Fé de Bogotá,
Colombia

Universidad Industrial de Santander (UIS), Museo de Historia Natural, Escuela de Biología,
Apartado Aéreo 678, Bucaramanga, Colombia

CUBA

Museo y Biblioteca de Zoología, Calle 42, Numero 3307, Mariano 13, La Habana, Cuba

Museo "Felipe Poey", Capitolio Nacional, Calle 25 entre "J" e "I," Vedado, La Habana, Cuba

DOMINICAN REPUBLIC

Museo Nacional de Historia Natural, Departamento de Zoología, Plaza de la Cultura "Cesar
Nicolás Penson," Santo Domingo, República Dominicana

ECUADOR

Instituto Nacional "Mejía", Avenida América, Quito, Ecuador

Museo de Ciencias Naturales "Colegio Maldonado", 1ra Constituyente, entre Larrea y España,
Riobamba, Ecuador

Museo de Historia Natural "Escuela Politécnica del Litoral", Escuela de Ciencias Naturales, Escuela
Politécnica del Litoral, Guayaquil, Ecuador

Museo de Historia Natural-Galapagos, Puerto Baquerizo Moreno, San Cristobal, Galápagos,
Ecuador

Universidad de Guayaquil, Museo de Ciencias Naturales, Facultad de Ciencias Naturales, Casilla
471, Guayaquil, Ecuador

Universidad "Luis Vargas Torres", Museo de Ciencias Naturales "Luis Vargas Torres," Escuela de
Ciencias Naturales, Esmeraldas, Ecuador

APPENDIX I.— *Continued.*

GUATEMALA

Museo Nacional de Historia Natural, Mastozoología, 6a Calle, 7-30, Zona 13, Apartado Postal 987, Ciudad Guatemala, Guatemala

Universidad del Valle, Departamento de Biología, Apartado Postal 82, Ciudad Guatemala, Guatemala

GUYANA

The Guyana Museum and Zoo, North Road, Georgetown, Guyana

University of Guyana, Center for the Study of Biodiversity, Georgetown, Guyana

HAITI

Institut de Sauvegarde du Patrimoine National (ISPAN), 77 Chemin des Dalles, B. P. 2484, Port-au-Prince, Haiti

HONDURAS

Museo Animal, Departamento de Vida Silvestre, Dirección General de Recursos Naturales Renovables, Tegucigalpa, Honduras

JAMAICA

The Institute of Jamaica, Science Museum, Natural History Division, Kingston, Jamaica

MEXICO

Centro Intercultural para el estudio de Desiertos y Océanos (CEDO), Apartado Postal 53, Puerto Peñasco, Sonora 83550, México

Colección del Instituto Nacional de Antropología e Historia (PH), Subdirección de Servicios Académicos, Laboratorio de Paleomastozoología, Moneda 16, Colonia Centro, México, Distrito Federal 06060, México

Instituto Tecnológico de Estudios Superiores de Monterrey - Unidad Guaymas (ITESM), Colección de Mastozoología, Apartado Postal 484 Guaymas, Sonora 85400, México

Universidad Autónoma del Estado de Morelos (UAEM), Colección de Mamíferos del Centro de Investigaciones Biológicas, Avenida Universidad 1001, Colonia Chamila, Cuernavaca, Morelos 66210, México

Universidad Autónoma de Puebla (UAP), Escuela de Biología, 4 Sur 104, Centro Puebla, Puebla 72000, México

Universidad de Guadalajara (LNLJ), Colección de Mamíferos, Instituto Manantlán de Ecología y Conservación de la Biodiversidad, Departamento de Ecología y Recursos Naturales, Nicolás Bravo 66, El Gurullo, Jalisco 48740, México

Universidad Nacional Autónoma de México, Facultad de Ciencias, (FC-UNAM), Colección de Mamíferos de la Facultad de Ciencias, Apartado Postal 70-399, México, Distrito Federal 04510, México

APPENDIX I.— *Continued.*

NICARAGUA

Universidad Nacional Autónoma de Nicaragua, Escuela de Biología, Departamento de Zoología, León, Nicaragua

Museo de Zoología, Instituto Nicaragüense de Recursos Naturales y del Ambiente, Km. 12.5, Carreterra Norte, Apartado 5123, Managua, Nicaragua

PARAGUAY

Museo de Historia Natural, Vivero Forestal, Entidad Binacional Itaipu, Casilla de Correo 381, Ciudad del Este, Hernanderias, Paraguay

PERU

Instituto del Mar del Perú, Esquina Gamarra y General Valle, Casilla Postal 22, Callao, Perú

Universidad Nacional de la Amazonia Peruana, Museo de Zoología, Apartado 496, Iquitos, Perú

Universidad Nacional de Cusco, Departamento de Zoología, Casilla Postal 423, Cusco, Perú

Universidad Nacional de Trujillo, Departamento de Zoología, San Martín 380, Trujillo, Perú

Universidad "Ricardo Palma," Laboratorio de Zoología, Facultad de Ciencias Biológicas, Apartado 797, Lima 18, Perú

URUGUAY

Instituto de Biología, Sección Zoología Vertebrados (ZVC), Facultad de Humanidades y Ciencias, Universidad de la República, Tristán Narvaja 1674, Montevideo 11200, Uruguay

Laboratorio de Evolución, Facultad de Ciencias, Tristán Narvaja 1674, Montevideo 11200, Uruguay

Museo Nacional de Historia Natural, Buenos Aires 562, Casilla de Correo 399, Montevideo, Uruguay

Museo "Damaso Antonio Larranaga," República de Chile 4215, Montevideo, Uruguay

VENEZUELA

Instituto de Investigaciones Veterinarias (IIV), Sección de Rabia, Apartado 70, Maracay 300, Estado Aragua, Venezuela

Museo de Ciencias Naturales (MCN), Universidad Simón Bolívar, Apartado Postal 80659, Caracas 1080-A, Venezuela

Museo del Instituto de Zoología Agrícola, Universidad Central de Venezuela, Maracay, Venezuela

Universidad de Zulia, Centro de Investigaciones Biológicas, Facultad de Humanidades, Apartado Postal 526, Maracaibo, Estado Zulia, Venezuela

APPENDIX II

COLLECTIONS THAT HAVE BEEN INCORPORATED INTO OTHER COLLECTIONS

This list includes only those transfers not listed in the previous survey report (Yates et al., 1987).

Collection transferred	Repository
BRITISH COLUMBIA	
Dun-Waters Collection	Kelowna Museum (KM)
MANITOBA	
Delta Waterfowl Research Station	Manitoba Museum of Man and Nature (MMMN)
University of Manitoba Collection (part)	Manitoba Museum of Man and Nature (MMMN)
ONTARIO	
Wistar Institute Collection (part)	Canadian Museum of Nature (CMN)
C. H. Buckner Collection	Canadian Museum of Nature (CMN)
Arctic Biological Station Collection	Canadian Museum of Nature (CMN)
O. J. Barton Collection	Royal Ontario Museum (ROM)
J. G. Williams Collection	Royal Ontario Museum (ROM)
R. G. Lanning Collection	Royal Ontario Museum (ROM)
R. Brooman Collection	Royal Ontario Museum (ROM)
CALIFORNIA	
Harry Coombs Collection	San Bernardino County Museum (SBCM)
L. M. Huey Collection	San Diego Natural History Museum (SDNHM)
S. G. Jewett Collection	San Diego Natural History Museum (SDNHM)
United States Geological Survey Collection	San Jose State University (MBM)
Jack C. VonBloeker, Jr. Collection (part)	Santa Barbara Museum of Natural History (SBMNH)
M. Hildebrand Collection	University of California, Berkeley (MVZ)
D. R. Dickey Collection (part)	University of California, Berkeley (MVZ)
University of California, Irvine Collection	University of California, Davis (MWFBI)
CONNECTICUT	
Marsh Osteological Collection	Yale University (YPM)
Morden African Collection	Yale University (YPM)
FLORIDA	
Albert Schwartz Collection	University of Kansas (KU)
University of Miami, Coral Gables Collection	University of Kansas (KU)
ILLINOIS	
Northwestern University Collection	Chicago Academy of Sciences (CHAS)
B. J. Hayward Collection	Field Museum (FMNH)
W. W. Goodpaster Collection	University of Illinois (UIMNH)
Edward Taylor Collection	University of Illinois (UIMNH)
Southern Illinois University, Cooperative Wildlife Research Laboratory (CWRL)	Southern Illinois University (SIUCM)
IOWA	
W. T. Hornaday Australian Collection	University of Iowa (IOWA)
Central College, Pella, IA Collection (part)	University of Iowa (IOWA)
KANSAS	
C. A. Ely Collection (part)	Fort Hays State University, Sternberg Museum (MHP)
Museum of the High Plains Collection (MHP)	Fort Hays State University, Sternberg Museum (MHP)
Ralph Ellis Collection	University of Kansas (KU)

APPENDIX II.— *Continued.*

Collection transferred	Repository
LOUISIANA University of Southwestern Louisiana	Louisiana State University (LSUMZ)
MASSACHUSETTS David A. Lovejoy Collection	Westfield State College (WSC)
MICHIGAN Lee R. Dice <i>Peromyscus</i> Collection	University of Michigan (UMMZ)
MINNESOTA F. J. Jannett Collection	The Science Museum of Minnesota (SMM)
MISSOURI Kansas City Museum Collection	University of Kansas (KU)
NEBRASKA Edson Fichter Collection University of Nebraska, Omaha Collection	University of Nebraska State Museum (UNSM) University of Nebraska State Museum (UNSM)
NEVADA J. R. Alcorn Collection	Nevada State Museum and Historical Society (NSMHS)
NEW MEXICO Biological Surveys Collection, Fort Collins, CO	University of New Mexico (MSB)
NEW YORK Bluntchli Embryological Collection J. J. Reedy Collection (Niagara University) St. Bonaventure University Collection	American Museum of Natural History (AMNH) Buffalo Society of Natural Sciences (BSNS) New York State Museum (NYSM)
OHIO University of Cincinnati Collection Wayne H. Davis Collection	Cincinnati Museum of Natural History (CMNH) Carnegie Museum of Natural History (CM)
PUERTO RICO Northwestern University Collection (part)	University of Puerto Rico (CPRC)
TEXAS Herb Klein Collection Southern Methodist University Collection University of North Texas Collection	Dallas Museum of Natural History (DMNH) Dallas Museum of Natural History (DMNH) Texas A&M University (TCWC)
UTAH Utah State University Collection Environmental Laboratory Collection	Brigham Young University (BYU) University of Utah (UMNH)
VERMONT Hood Museum Collection Franklin Fairbanks Collection Monshire Museum Collection (part)	Fairbanks Museum and Planetarium (FMPC) Fairbanks Museum and Planetarium (FMPC) University of Vermont (ZTNH)
WASHINGTON John G. Sinclair Collection Walla Walla College Collection Irven O. Buss Collection	National Marine Mammal Laboratory (NMML) University of Washington (UWBM) Washington State University (CRCM)
WISCONSIN Milton College Collection	University of Wisconsin (UWZM)

APPENDIX III

BIBLIOGRAPHY OF CATALOGUES OF TYPE SPECIMENS IN COLLECTIONS
OF MAMMALS IN THE WESTERN HEMISPHERE

- ALLEN, G. M. 1931. Type specimens of mammals in the Museum of Comparative Zoology. *Bulletin of the Museum of Comparative Zoology*, 71:229-289.
- AVILA PIRES, F. D. 1968. Tipos de mamíferos recentes do Museu Nacional, Rio de Janeiro. *Arquivos do Museu Nacional*, 53:161-191.
- BOND, S. I. 1969. Type specimens of mammals in the San Diego Natural History Museum. *Transactions of the San Diego Society of Natural History*, 15:252-263.
- CSUTI, B. 1980. Type specimens of Recent mammals in the Museum of Vertebrate Zoology, University of California, Berkeley. *University of California Publications in Zoology*, 114:1-75.
- DOUTT, J. K. 1934. List of the types of mammals in the Carnegie Museum. *Annals of the Carnegie Museum*, 22:317-321.
- GOODWIN, G. G. 1953. Catalogue of type specimens of Recent mammals in the American Museum of Natural History. *Bulletin of the American Museum of Natural History*, 102:207-412.
- GREEN, G. D., and A. E. PEDEN. 1992. Type specimens of animals and plants in the collection of the Royal British Columbia Museum. *Royal British Columbia Museum*, Victoria, 28 pp.
- HAFNER, M. S. 1993. Mammalogical type specimens in the Museum of Natural Science, Louisiana State University. *Occasional Papers of the Museum of Natural Science, Louisiana State University*, 67:1-12.
- HOOPER, E. T. 1977. Type specimens of Recent mammals in the Museum of Zoology, University of Michigan. *Occasional Papers of the Museum of Zoology, University of Michigan*, 680:1-22.
- HUMPHREY, S. R. 1974. Recent mammals. P. 120, *in* Catalog of type specimens in the Department of Natural Sciences, Florida State Museum (C. R. Gilbert, ed.). *Bulletin of the Florida State Museum, Biological Science*, 18:101-120.
- JONES, C. A. 1994. Type specimens of mammals in The Denver Museum of Natural History. *Proceedings of the Denver Museum of Natural History*, 6:1-4.
- JONES, J. K., Jr., and H. H. GENOWAYS. 1969. Holotypes of Recent mammals in the Museum of Natural History, University of Kansas. *Miscellaneous Publications of the University of Kansas Museum of Natural History*, 51:129-146.
- JONES, J. K., Jr., R. S. HOFFMANN, and S. K. KORTLUCKE. 1984. Holotypes of Recent mammals in the Museum of Natural History, University of Kansas, 1969-1982. *Occasional Papers of the University of Kansas Museum of Natural History*, 112:1-5.
- KOOPMAN, K. F. 1973. Catalogue of type specimens of Recent mammals in the Academy of Natural Sciences of Philadelphia. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 128:1-24.
- LAWRENCE, M. A. 1993. Catalog of Recent mammal types in the American Museum of Natural History. *Bulletin of the American Museum of Natural History*, 217:1-200.
- MAYER, W. V. 1949. Catalogue of type specimens of mammals in the Natural History Museum of Stanford University. *Proceedings of the California Zoology Club*, 1:29-32.
- OCHOA, G. J. 1989. Revisión de los ejemplares tipo de mamíferos recientes en colecciones venezolanas. *Biollania*, 6:1-13.
- POOLE, A. J., and V. S. SCHANTZ. 1942. Catalog of the type specimens of mammals in the United States National Museum, including the Biological Surveys Collection. *Bulletin of the United States National Museum*, 173:1-705.
- RICKART, E. A. 1987. Type specimens of Recent mammals in the Utah Museum of Natural History, University of Utah. *The Great Basin Naturalist*, 47:620-624.
- SANBORN, C. C. 1947. Catalogue of type specimens of mammals in the Chicago Natural History Museum. *Fieldiana: Zoology*, 32:209-293.
- SCHMIDLY, D. J. and J. K. JONES, Jr. 1984. Holotypes of Recent mammals in Texas natural history collections. *Occasional Papers, The Museum, Texas Tech University*, 92:1-13.
- YOUNGMAN, P. M. 1972. Type specimens of mammals in the National Museum of Natural Sciences, Ottawa. *National Museum of Natural Sciences Publications in Zoology*, 7:1-7.

APPENDIX IV

PUBLICATION SERIES ASSOCIATED WITH COLLECTIONS OF MAMMALS

<u>Title of publication</u>	<u>Museum acronym</u>
<i>Acta Biológica Venezuelica</i>	MBUCV
<i>Acta Zoologica Lilloana</i>	CML
<i>American Museum Novitates</i>	AMNH
<i>Anales del Instituto de Biología</i>	UNAM
<i>Andrés Posada Arango</i>	IND-M
<i>Annals of Carnegie Museum</i>	CM
<i>Annals of Iowa</i>	ISNHC
<i>Arquivos do Museu Nacional</i>	MN
<i>Biological Field Station</i>	SUNYO
<i>Biological Papers of the University of Alaska</i>	UAM
<i>Bishop Museum Bulletins in Zoology</i>	BPBM
<i>Boletín, Museo de Historia Natural, Universidad Nacional de San Agustín</i>	MUSA
<i>Boletín del Museo Nacional Historia Natural</i>	MNHN
<i>Boletín del Museo Nacional Historia Natural del Paraguay</i>	MNHNP
<i>Boletín do Museo de Biologia Mello Leitão</i>	MBML
<i>Brenesia del Museo Nacional de Costa Rica</i>	MNCR
<i>Brimleyana, Occasional Papers of the North Carolina Biological Survey</i>	NCSM
<i>Bulletin of Carnegie Museum</i>	CM
<i>Bulletin of Chicago Academy of Sciences</i>	CHAS
<i>Bulletin of the American Museum of Natural History</i>	AMNH
<i>Bulletin of the Buffalo Society of Natural Sciences</i>	BSNS
<i>Bulletin of the Dallas Museum of Natural History</i>	DMNH
<i>Bulletin of the University of Nebraska State Museum</i>	UNSM
<i>Caldasia</i>	ICN
<i>Comunicaciones</i>	MFA-ZV-M
<i>Contributions in Science</i>	LACM
<i>Discovery Magazine</i>	YPM
<i>Field Guide Series</i>	NVM
<i>Fieldiana: Zoology</i>	FMNH
<i>Florida Museum Bulletin</i>	UF
<i>Great Basin Naturalist</i>	BYU
<i>Great Basin Naturalist Memoirs</i>	BYU
<i>Illinois Natural History Survey Bulletin</i>	INHS
<i>Knoxjonesia (previously Occasional Papers, The Museum, Texas Tech University)</i>	TTU
<i>Life Sciences Contributions</i>	ROM
<i>Lozania</i>	ICN
<i>Massachusetts Division of Fisheries and Wildlife Research Bulletin</i>	MDFW
<i>Memoirs of the Virginia Museum of Natural History</i>	VMNH
<i>Memoria-Natura</i>	MHNLS
<i>Miscellaneous Publications of the Rocky Mountain Biological Laboratory</i>	RMBL
<i>Miscellaneous Publications, Museum of Natural History, University of Kansas</i>	KU
<i>Miscellaneous Publications of the Museum of Zoology, University of Michigan</i>	UMMZ
<i>Museum Bulletin</i>	SBMNH
<i>Museum Chatter</i>	FRMHS
<i>Museum Notes</i>	UNSM
<i>Museum of Natural History Bulletin</i>	UOMNH
<i>Museum Reports</i>	UWSP
<i>National History Occasional Papers</i>	PMA
<i>Natural History</i>	AMNH
<i>Natural History Contributions</i>	RSM
<i>Natural History Inventory of Colorado</i>	UCM

APPENDIX IV.— *Continued.*

<u>Title of publication</u>	<u>Museum acronym</u>
<i>Natural Science Notes</i>	MP
<i>New Brunswick Museum Monograph Series</i>	NBM
<i>New Brunswick Museum Publications in Natural Science</i>	NBM
<i>Nemouria</i>	DMNH
<i>New York State Museum Bulletin</i>	NYSM
<i>Newsletter</i>	BMNH
<i>Newsletters</i>	FMPC
<i>Noticiero Mensual del Museo Nacional de Historia Natural</i>	MNHN
<i>Occasional Papers of the Bishop Museum</i>	BPBM
<i>Occasional Papers, Museo Argentino de Ciencias Naturales</i>	MACN
<i>Occasional Papers of the Museum of Natural History</i>	KU
<i>Occasional Papers of the Museum of Natural Science</i>	LSUMZ
<i>Occasional Papers of the North Carolina Biological Survey</i>	NCSM
<i>Occasional Papers of the Oklahoma Museum of Natural History</i>	OMNH
<i>Occasional Papers, The Museum of Southwestern Biology</i>	MSB
<i>Occasional Papers, Tulane University Museum of Natural History</i>	TU
<i>Occasional Papers, Utah Museum of Natural History</i>	UMNH
<i>Pacific Discovery Magazine</i>	CAS
<i>Peepers</i>	NVM
<i>Postilla</i>	YPM
<i>Proceedings of San Diego Society of Natural History</i>	SDNHM
<i>Proceedings of the Academy of Natural Sciences of Philadelphia</i>	ANSP
<i>Proceedings of the Denver Museum of Natural History</i>	DMNH
<i>Publicacion Avulsos, Museu Nacional, Rio de Janeiro</i>	MN
<i>Publicacion Ocasional del Museo Nacional de Historia Natural</i>	MNHN
<i>Publications of the Wagner Free Institute of Science</i>	WFIS
<i>Research Reports</i>	MP
<i>Revista Politécnica, serie Biología</i>	EPN
<i>San Bernardino County Museum, Museum Quarterly</i>	SBCM
<i>Special Publications of the Northeastern University Vertebrate Collection</i>	NUVC
<i>Special Publications of Carnegie Museum</i>	CM
<i>Special Publications, The Museum of Southwestern Biology</i>	MSB
<i>Stinapa</i>	CPM
<i>Thomas Jefferson Press</i>	NEMSU
<i>Transactions of the Wagner Free Institute of Science</i>	WFIS
<i>Trianea</i>	IND-M
<i>Tulane Studies in Zoology</i>	TU

APPENDIX V

BASIC CURATORIAL STANDARDS FOR SYSTEMATIC COLLECTIONS
OF MAMMALS

(as established by the ASM Systematic Collections Committee and published in the Journal of Mammalogy, 59:911-914, 1978)

1. Collections should be administered by non-profit or private institutions unless an individual or profit-making organization is willing to establish a perpetual trust returning a reasonable per-specimen, per-year maintenance cost for the collection.
2. A collection must have at least one professional mammalogist who is directly responsible for it.
3. Collections must be housed in buildings that provide adequate protection from fire, water, dust, excessive heat or light, and other physical hazards. We recommend that important permanent records (such as catalogues and field notes) be kept in a fireproof or fire retardant safe or its equivalent.
4. Specimens must be stored in insect, dust, and light-proof containers.
5. Specimens must be periodically inspected and fumigated in accordance with federal regulations which stipulate the kinds of fumigants that can be used for this purpose (Williams et al., Special Publication, Carnegie Museum of Natural History, 4:54-56, 1977).
6. Specimens must be prepared in a manner that insures their utility. It is particularly critical that osteological materials be properly prepared. The use of dermestid beetles and their larvae in cleaning small skulls and other osteological materials is strongly recommended, but dermestid colonies should be located so to prevent infestation of the collection proper.
7. Specimens must be arranged according to a specific plan that is recorded and, preferably, posted.
8. Field notes and ancillary data must be preserved as a part of the permanent record for each specimen.
9. Data on specimen labels, in field notes, in the permanent catalogues, and wherever else data are recorded in the collection must be accurate.
10. A permanent catalogue of all specimens in the collection must be maintained. The catalogue must include at least the minimal data recommended by the American Society of Mammalogists' Committee on Information Retrieval: catalogue number; genus; species; sex; country, continent, or ocean of capture; state or province of capture; method of preparation; date of capture. Implementation of electronic data-processing techniques to facilitate management of specimens and data is recommended. Also, it is recommended that collections maintain catalogues of individual accessions, in addition to those of individual specimens, to facilitate keeping records of collecting permits, field notes, and other information ancillary to the specimens.
11. The collection must be accessible to all qualified users.
12. Accessibility to collections by unqualified persons must be restricted. We recommend the formation of separate teaching collections for use in basic courses, and the restriction of catalogued specimens for research purposes.
13. Loans with other institutions must be handled in a professional manner. Specimens sent on loan should be properly packaged in accordance with federal regulations (Williams et al., Special Publication, Carnegie Museum of Natural History, 4:62-68, 1977).

APPENDIX V.— *Continued.*

14. Type specimens must be identified as such, stored in cases marked accordingly, and made accessible to qualified scientists. They should not be sent on loan. Type specimens should be deposited only in institutions wherein the specimens will receive the perpetual care they require.
15. Evidence should be furnished that the institution intends to continue support of the collection at least at a level necessary to maintain these standards. Should institutional priorities be changed at some future time, the institution should express a willingness to transfer the collection to another public institution that will insure its perpetual maintenance.
16. Acquisition and possession of specimens of mammals must accord with federal and state regulations pertaining thereto. Assurance of adherence to such regulations will be sought when a collection is considered for inclusion on the list of collections that meet minimal standards.
17. The status of a collection may be reviewed at any time at the request of the institution or the discretion of the ASM Committee on Systematic Collections. Curators should strive to cooperate in the review process.

APPENDIX VI

MAMMAL COLLECTIONS ACCREDITED BY THE AMERICAN SOCIETY OF MAMMALOGISTS

The collections on this list meet or exceed the basic curatorial standards established by the ASM Systematic Collections Committee (Appendix V). Collections are listed alphabetically by country, then province or state. Date of accreditation (and reaccreditation) are indicated.

<u>Collection name and acronym</u>	<u>Year of accreditation</u>	<u>Province or state</u>
CANADA		
Provincial Museum of Alberta (PMA)	1985	Alberta
University of Alberta, Museum of Zoology (UAMZ)	1985	Alberta
Royal British Columbia Museum (RBCM)	1976	British Columbia
University of British Columbia, Cowan Vertebrate Museum (UBC)	1975	British Columbia
Canadian Museum of Nature (CMN)	1975, 1987	Ontario
Royal Ontario Museum (ROM)	1975, 1995	Ontario
MEXICO		
Universidad Nacional Autónoma de México, Instituto de Biología (IBUNAM)	1975, 1983	Distrito Federal
UNITED STATES		
University of Alaska Museum (UAM)	1975, 1983	Alaska
University of Arizona, Collection of Mammals (UA)	1975, 1982	Arizona
Arkansas State University, Collection of Recent Mammals (ASUMZ)	1976	Arkansas
University of Arkansas at Little Rock (UALRVC)	1977	Arkansas
California Academy of Sciences (CAS)	1975	California
California State University, Long Beach (CSULB)	1979, 1980	California
Humboldt State University (HSU)	1984	California
Natural History Museum of Los Angeles County (LACM)	1978	California
San Diego Natural History Museum (SDNHM)	1975	California
Santa Barbara Museum of Natural History (SBMNH)	1986	California
University of California, Berkeley, Museum of Vertebrate Zoology (MVZ)	1975	California
University of California, Santa Barbara (UCSB)	1986	California
Denver Museum of Natural History (DMNH)	1989	Colorado
University of Colorado Museum (UCM)	1975	Colorado
University of Connecticut, Mammal Research Collection (UCONN)	1975, 1983	Connecticut
United States National Museum of Natural History (USNM)	1975, 1977, 1979	D. C.
University of Florida, Florida Museum of Natural History (FSM)	1975, 1983	Florida
University of Georgia, Museum of Natural History (UGAMNH)	1985	Georgia
Bernice P. Bishop Museum (BPBM)	1975, 1986	Hawaii
Chicago Academy of Science (CHAS)	1989	Illinois
Field Museum (FMNH)	1975, 1983	Illinois
University of Illinois, Museum of Natural History (UIMNH)	1975, 1985	Illinois
Fort Hays State University, Sternberg Museum (MHP)	1975, 1980	Kansas
University of Kansas, Museum of Natural History (KU)	1975, 1987	Kansas
Louisiana State University, Museum of Natural Science (LSUMZ)	1975, 1989	Louisiana
Harvard University, Museum of Comparative Zoology (MCZ)	1975	Massachusetts
Michigan State University Museum (MSU)	1975, 1985	Michigan
University of Michigan, Museum of Zoology (UMMZ)	1975, 1987	Michigan
University of Minnesota, Bell Museum of Natural History (MMNH)	1975	Minnesota
University of Montana, Zoological Museum (UMZM)	1975, 1985	Montana
University of Nebraska State Museum (UNSM)	1975	Nebraska
New Mexico Museum of Natural History (NMMNH)	1994	New Mexico
New Mexico State University, Department of Biology (NMSU)	1977	New Mexico
University of New Mexico, Museum of Southwestern Biology (MSB)	1975, 1984, 1987	New Mexico

APPENDIX VI.— *Continued.*

<u>Collection name and acronym</u>	<u>Year of accreditation</u>	<u>Province or state</u>
American Museum of Natural History (AMNH)	1975, 1978	New York
Cornell University, Vertebrate Collections (CUVC)	1975	New York
New York State Museum (NYSM)	1975	New York
Cleveland Museum of Natural History (CMNH)	1994	Ohio
University of Oklahoma, Oklahoma Museum of Natural History (OMNH)	1975, 1982	Oklahoma
Oregon State University (OSUFW)	1975, 1979	Oregon
Carnegie Museum of Natural History (CM)	1975, 1984	Pennsylvania
Shippensburg University, Vertebrate Museum (SUVM)	1977, 1987	Pennsylvania
Clemson University, Vertebrate Collections (CUSC)	1986	South Carolina
University of Memphis (UM)	1976	Tennessee
Angelo State University, Natural History Collection (ASNHC)	1992	Texas
Dallas Museum of Natural History (DMNH)	1980	Texas
Midwestern State University (MWSU)	1975, 1988	Texas
The Museum of Texas Tech University (TTU)	1975, 1983	Texas
Texas A&M University, Texas Cooperative Wildlife Collection (TCWC)	1975, 1984	Texas
University of Texas at El Paso, Centennial Museum (UTEP)	1977	Texas
University of Texas at Austin, Texas Natural History Collection (TNHC)	1976	Texas
Brigham Young University, Monte L. Bean Life Science Museum (BYU)	1991	Utah
University of Utah, Utah Museum of Natural History (UMNH)	1975, 1993	Utah
University of Puget Sound, James R. Slater Museum of Natural History (PSM)	1975	Washington
University of Washington, Thomas Burke Memorial Washington State Museum (UWBM)	1975	Washington
Washington State University, Charles R. Conner Museum (CRCM)	1977	Washington
University of Wisconsin, Stevens Point (UWSP)	1994 (provisional)	Wisconsin
University of Wisconsin, Zoological Museum (UWZM)	1975, 1983	Wisconsin

APPENDIX VII

ALPHABETICAL INDEX OF COLLECTION ACRONYMS

Asterisks denote acronyms assigned (or modified) by the authors, and daggers denote duplicated acronyms.

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
ACTC	Austin College	63
ACUNHC	Abilene Christian University, Natural History Collection	63
AFGMC	Alaska Department of Fish and Game	29
AMNH	American Museum of Natural History	54
ANSP	Academy of Natural Sciences of Philadelphia	60
APM	Algonquin Park Museum	21
ASCC	Adams State College Collection	36
ASNHC	Angelo State Natural History Collection	63
ASUMC	Arizona State University, Mammal Collection	30
ASUMZ	Arkansas State University, Collection of Recent Mammals	31
AUM	Auburn University Museum	29
AUW	Acadia University, Wildlife Museum	21
BCM	Brooklyn Children's Museum	54
BCNP	Bryce Canyon National Park	67
BMNHC	Burpee Museum of Natural History	40
BNP	Banff Park Museum	19
BPBM	Bernice P. Bishop Museum	39
BSCVC	Bemidji State University, Vertebrate Collections	49
BSNS	Buffalo Society of Natural Sciences	55
BSUMC	Ball State University, Mammal Collection	42
BUTC	Boston University	47
BVC	Buena Vista College	42
BYU	Brigham Young University, Monte L. Bean Life Science Museum	67
CACA	Carlsbad Caverns National Park	53
CAS	California Academy of Sciences	32
CBF	Colección Boliviana de Fauna	18
CBNM	Cedar Breaks National Monument	67
CCNH	Central Michigan University, Center for Cultural and Natural History	48
CCVC	Centenary College, Vertebrate Collection	45
CCW	Casper College	71
CERL/BIC	United States Army, Biological Inventory Collection	41
CHAS	Chicago Academy of Sciences	40
CHM	Charleston Museum	61
CIB	Centro de Investigaciones Biológicas del Noroeste (Mexico)	26
CIMNH	Albertson College of Idaho, Orma J. Smith Museum of Natural History	39
CIS	Cranbrook Institute of Science	48
CLNP	Crater Lake National Park Museum Collection	59
CM	Carnegie Museum of Natural History	60
CM-IEA	Universidad Autónoma de Tamaulipas (Mexico)	27
CM-MVUP	Universidad de Panama, Museo de Vertebrados	28
CM-UMSNH	Universidad de Michoacán (Mexico)	27
CMCNA	Museo de Ciencias Naturales y Antropológicas "Prof. A. Serrano"	17
CML	Universidad Nacional de Tucumán, Colección de Mamíferos Lillo (Argentina)	18
CMN	Canadian Museum of Nature	21

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
CMNH [†]	Cincinnati Museum of Natural History	57
CMNH [†]	Cleveland Museum of Natural History	57
CMSU	Central Missouri State University	50
COLM	Colorado National Monument	36
CPM	Christoffel Park Museum	28
CPRC	University of Puerto Rico, Caribbean Primate Research Center Museum	61
CPSU	California Polytechnic State University, San Luis Obispo	32
CRCM	Washington State University, Charles R. Conner Museum	70
CRD	Instituto Politécnico Nacional, Colección Científica de Fauna Silvestre (Mexico)	26
CSCCV	Chadron State College, Collection of Vertebrates	51
CSCS	California State University, Turlock	33
CSPUP	California State Polytechnic University, Pomona	32
CSUC	California State University, Chico, Vertebrate Museum	32
CSUF	California State University, Fresno	32
CSULB	California State University, Long Beach	32
CSUN	California State University, Northridge	32
CSUTC	Colorado State University, Mammalogy Teaching Collection	36
CUI	Central College	42
CUMZ [†]	Cameron University, Museum of Zoology	58
CUMZ [†]	Carleton University, Museum of Zoology	21
CUNRC	Universidad Nacional de Rio Cuarto, Colección de Mamíferos (Argentina)	18
CUSC	Clemson University, Vertebrate Collections	61
CUVC	Cornell University, Vertebrate Collections	55
CVUL	Université Laval, Collection de Vertébrés	22
CVULA	Universidad de Los Andes (Venezuela)	72
CZIP	Universidad de Magallanes, Instituto de la Patagonia (Chile)	24
CZUAA	Universidad Autónoma de Aguascalientes (Mexico)	27
DEVA	Death Valley National Park	33
DINO	Dinosaur National Monument	37
DIX	Dixie College, Natural History Museum	67
DMNH [†]	Dallas Museum of Natural History	64
DMNH [†]	Delaware Museum of Natural History	38
DMNH [†]	Denver Museum of Natural History	36
DMNH 1	Dayton Museum of Natural History	57
DMSP	Davis Mountains State Park	64
DNHM	Dinosaur Natural History Museum	67
DVCM	Diablo Valley College Museum	33
EBRG	Museo de la Estación Biologica de Rancho Grande (Venezuela)	72
ECENT	East Central University	58
ECOSUR	El Colegio de la Frontera Sur (Mexico)	26
EIU	Eastern Illinois University	40
EKU	Eastern Kentucky University	45
EMU	Eastern Michigan University, T. L. Hankinson Vertebrate Museum	48
ENCB	Escuela Nacional de Ciencias Biologicas (Mexico)	26
ENMUNHM	Eastern New Mexico University, Natural History Museum	53
ENP	Everglades National Park	38
EOSCVM	Eastern Oregon State College, Vertebrate Museum	59
EPN	Escuela Politécnica Nacional (Ecuador)	25
FCMM	Universidad Nacional Autónoma de México, Facultad de Ciencias	27

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
FLC	Fort Lewis College	37
FMNH	The Field Museum	40
FMPC	Fairbanks Museum and Planetarium Collection	68
FRM	Friends University, Fellow-Reeve Museum of History and Science	44
FSUM	Florida State University Museum	39
FSUMC	Frostburg State University, Mammal Collection	46
FWMSH	Fort Worth Museum of Science & History	64
GBNM	Glacier Bay National Park and Preserve Museum	30
GLAC	Glacier National Park, Glacier Collection	51
GML	Gaylord Memorial Laboratory Museum	50
GRCAMC	Grand Canyon National Park Museum Collection	30
GRPM	Public Museum of Grand Rapids	49
GRSM	Great Smoky Mountains National Park	62
GSDNM	Great Sand Dunes National Monument	37
GTNP	Grand Teton National Park	72
HBC	Henry Brockhouse Collection	62
HCCV	Hastings College, Collection of Vertebrates	51
HCMZ	Hope College	48
HCNHSC	Ohio Historical Society, Natural History Synoptic Collection	57
HM	Hastings Museum	52
HNHR	University of California, Hastings Natural History Reservation	35
HSU	Humboldt State University	33
HSUCV	Hardin-Simmons University, Collection of Vertebrates	64
HSUMZ	Henderson State University, Museum of Zoology	31
IADIZA-CM	Instituto Argentino de Investigaciones de las Zonas Aridas	17
IBUNAM	Universidad Nacional Autónoma de México, Instituto de Biología	28
ICN	Instituto de Ciencias Naturales, Museo de Historia Natural (Colombia)	24
IEEUACH	Universidad Austral de Chile, Instituto de Ecología y Evolución	23
IFGD	Idaho Fish and Game	40
IIBUV	Investigaciones Biológicas de la Universidad Veracruzana (Mexico)	26
IND-M	La Unidad de Investigación "Federico Medem"-Inderena (Colombia)	24
INC*	Instituto Nacional de Cultura, Museo de Ciencias Naturales (Panama)	28
INHS	Illinois Natural History Survey	40
IOWA	University of Iowa, Museum of Natural History	43
ISM	Illinois State Museum	41
ISNHC	State Historical Society of Iowa	43
ISU	Illinois State University	41
ISUVC	Indiana State University	42
JMM	Earlham College, Joseph Moore Museum	42
JSHC	Jay S. Haft Collection	71
KM	Kelowna Museum	20
KSU	Kansas State University	44
KU	University of Kansas, Museum of Natural History	44
LACM	Natural History Museum of Los Angeles County	33
LAME	Lake Mead National Recreation Area	52
LAVO	Lassen Volcanic National Park	33
LCM	Universidad de Chile, Laboratorio de Citogenética de Mamíferos	23
LSSC	Lake Superior State College	48

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
LSUMZ	Louisiana State University, Museum of Natural Science	45
LTU	Louisiana Tech University	45
MACN	Museo Argentino de Ciencias Naturales "Bernardino Rivadavia"	17
MBM	San Jose State University, Museum of Birds and Mammals	35
MBML	Museu de Biologia Mello Leitão (Brazil)	18
MBUCV	Universidad Central de Venezuela	72
MCN	Museu de Ciências Naturais (Brazil)	19
MCZ	Harvard University, Museum of Comparative Zoology	47
MDFW	Massachusetts Division of Fisheries and Wildlife	47
MECN	Museo Ecuatoriano de Ciencias Naturales (Ecuador)	25
MFA-ZV-M	Museo Florentino Ameghino, Colección de Mastozoología (Argentina)	17
MHNC	Museo de Historia Natural de Concepción (Chile)	23
MHNCI	Museu de Historia Natural "Capão de Imbuia" (Brazil)	19
MHNES*	Museo de Historia Natural de El Salvador	25
MHNLS	Colección de Mastozoología (Venezuela)	72
MHNV	Museo de Historia Natural de Valparaíso (Chile)	23
MHP	Fort Hays State University, Sternberg Museum of Natural History	43
MJCM	Museo de Ciencias Naturales y Antropológicas "Prof. Juan C. Moyano" (Argentina)	17
MLP	Museo de La Plata (Argentina)	17
MLZ	Occidental College, Moore Laboratory of Zoology	34
MMMNI	Manitoba Museum of Man and Nature	20
MMNH	University of Minnesota, James Ford Bell Museum of Natural History	50
MMNS	Mississippi Museum of Natural Science	50
MMP	Museo de Mar del Plata (Argentina)	17
MMS	Montshire Museum of Science	69
MN	Universidade Federal do Rio de Janeiro, Museu Nacional (Brazil)	19
MNA	Museum of Northern Arizona	30
MNCR	Museo Nacional de Costa Rica	24
MNHN	Museo Nacional de Historia Natural (Chile)	23
MNHNP	Museo Nacional de Historia Natural del Paraguay	28
MNK	Museo de Historia Natural "Noel Kempff Mercado" (Bolivia)	18
MNR	Ministry of Natural Resources	22
MP	Mohonk Preserve, Inc.	55
MPC	Monterey Peninsula College, Life Science Museum	33
MSB	University of New Mexico, Museum of Southwestern Biology	54
MSU	Michigan State University Museum	49
MSUB	Montana State University	51
MSUMC	Murray State University	45
MSUZ	Mississippi State University, Zoological Collections	50
MU	Miami University	57
MUGM	Museo de Ciencias Naturales, Colección "Gustavo Orcés" (Ecuador)	25
MUMZ	University of Missouri, Museum of Zoology	51
MUSA	Universidad Nacional de San Agustín, Museo de Historia Natural (Peru)	28
MUSM	Universidad Nacional de San Marcos, Museo de Historia Natural (Peru)	29
MVZ	University of California, Berkeley, Museum of Vertebrate Zoology	35
MWFB	University of California, Davis, Museum of Wildlife and Fisheries Biology	35
MWSU	Midwestern State University	64
MZ-ICACH	Instituto de Ciencias y Artes de Chiapas, Museo Zoológico (Mexico)	26

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
MZUC	Universidad de Concepción, Museo de Zoología (Chile)	23
MZUCR	Universidad de Costa Rica, Museo de Zoología	24
MZUSP	Universidade de Sao Paul, Museu de Zoologia (Brazil)	19
NAUVM	Northern Arizona University, Museum of Vertebrates	30
NBM	New Brunswick Museum	21
NBNM	National Park Service	68
NCS	North Carolina State University	56
NCSM	North Carolina State Museum of Natural Sciences	56
NDSU	North Dakota State University	56
NEMSU	Truman State University	51
NLU	Northeast Louisiana University, Museum of Zoology	46
NMED	New Mexico Environment Department	53
NMML	National Marine Mammal Laboratory	70
NMMNH	New Mexico Museum of Natural History	53
NMSU	New Mexico State University	54
NPSC	Northern Prairie Science Center	56
NRWC	N. R. Whitney Collection	62
NSM	Nova Scotia Museum of Natural History	21
NSMC	Nevada State Museum	52
NSMHS	Nevada State Museum and Historical Society	52
NSU	Northeastern State University, Biological Collections	58
NSUL	Northwestern State University of Louisiana	46
NUVC	Northeastern University, Vertebrate Collection	47
NWC	University of Northern Iowa, Nixon Wilson Collection	43
NWMSU	Northwest Missouri State University	50
NYSM	New York State Museum	55
NZCS	National Zoological Collection of Suriname	29
OAXM	Centro Interdisciplinario de Estudios, Colección Mastozoológica (Mexico)	25
OMNH	University of Oklahoma, Oklahoma Museum of Natural History	58
ONP	Olympic National Park	70
OSU	Oklahoma State University, Collection of Vertebrates	58
OSUFW	Oregon State University, Department of Fisheries and Wildlife Mammal Collection	59
OSUMZ	Ohio State University, Museum of Biological Diversity	57
OUVC	Ohio University, Vertebrate Collection	57
PAUMC	Pan American University, Mammal Collection	64
PECA	Pratt Education Center and Aquarium	44
PFSS	Petrified Forest National Park	31
PGMNH	Pacific Grove Museum of Natural History	34
PM†	Pratt Museum	30
PM†	Putnam Museum of History and Natural Science	43
PMA	Provincial Museum of Alberta	19
PMNH	Amherst College, Pratt Museum of Natural History	47
PMS	Peabody Essex Museum	47
PMSD	Pettigrew Museum	62
PNICMM-INP	Instituto Nacional de la Pesca (Mexico)	26
PORE	Point Reyes National Seashore	34
PPHM	Panhandle-Plains Historical Museum	64
PRICO	University of Puerto Rico	61

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
PSM	University of Puget Sound, James R. Slater Museum of Natural History	70
PSU [†]	Pennsylvania State University	60
PSU [†]	Portland State University, Collection of Vertebrates	59
PSUMC	Pittsburg State University	44
PUCMNH	Pacific Union College, Museum of Natural History	34
PWRC	Patuxent Wildlife Research Center	47
QCAZ	Pontifica Universidad Católica del Ecuador, Museo de Zoología-Mamíferos	25
RBCM	Royal British Columbia Museum	20
RCMC	Rockford College	41
RM	McGill University, Redpath Museum	22
RMBL	Rocky Mountain Biological Laboratory	37
RMNP	Riding Mountain National Park	20
ROM	Royal Ontario Museum	22
ROMO	Rocky Mountain National Park	37
RPM	Reading Public Museum	60
RPPMC	Rondeau Provincial Park	22
RSM	Royal Saskatchewan Museum	22
RVP	Museo Provincial de Historia Natural de La Pampa (Argentina)	18
RWC	State University of New York, Roosevelt Wildlife Collection	55
RWPM	Roger Williams Park Museum of Natural History	61
SBCM	San Bernardino County Museum	34
SBMNH	Santa Barbara Museum of Natural History	35
SCNHM	Southwestern College, Natural History Museum	44
SDAKS	South Dakota State University	62
SDNHM	San Diego Natural History Museum	34
SDSU	San Diego State University	34
SETON	Philmont Scout Ranch, Seton Memorial Library	54
SHM	Siouxland Heritage Museum	62
SHMC	Luther College, Sherman A. Hoslett Museum of Natural History	42
SHSND	North Dakota Heritage Center	56
SHSU	Sam Houston State University, Vertebrate Natural History Collection	65
SIUCM	Southern Illinois University	41
SIUE	Southern Illinois University, Edwardsville	41
SJER	United States Forest Service, San Joaquin Experimental Range	35
SJUBC	Saint John's University, Biology Collections	49
SLU	Southeastern Louisiana University, Vertebrate Museum	46
SM [†]	Baylor University, Strecker Museum	63
SM [†]	Sanford Museum Collections	43
SMM	The Science Museum of Minnesota	49
SMNH	Emporia State University, Schmidt Museum of Natural History	43
SOSCMVNH	Southern Oregon State College, Museum of Vertebrate Natural History	59
SRSU	Sul Ross State University	65
SSM [†]	Savannah Science Museum	39
SSM [†]	Springfield Science Museum	48
SUCEA	The University at Albany	55
SUNYO	State University of New York at Oneonta	55
SUVM	Shippensburg University, Vertebrate Museum	60
SWRS	Southwestern Research Station	31
TAIU	Texas A&I University, Texas A&I Collections	65
TCNM	Timpanogos Cave National Monument	68
TCWC	Texas A&M University, Texas Cooperative Wildlife Collection	65

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
TMM	University of Texas at Austin, Vertebrate Paleontology Lab	66
TNHC	University of Texas at Austin, Texas Natural History Collection	66
TNSC	Trailside Nature and Science Center	53
TSC	Tarleton State University, Tarleton State Collection	65
TSSMC	Teton Science School	72
TTU	Texas Tech University, Museum of Texas Tech University	65
TU	Tulane University, Museum of Natural History	46
TWC	Texas Wesleyan College, Museum of Zoology	65
TWRA	Tennessee Wildlife Resources Agency	63
UA	University of Arizona, Collection of Mammals	31
UABCS	Universidad Nacional Autónoma de Baja California Sur (Mexico)	27
UALRVC	University of Arkansas at Little Rock, Vertebrate Collection	31
UAM	University of Alaska Museum	30
UAMI	Universidad Autónoma Metropolitana, Unidad Iztapalapa (Mexico)	27
UAMZ	University of Alberta, Museum of Zoology	20
UAMZC	University of Arkansas, Museum Zoological Collections	31
UAY*	Universidad Autónoma de Yucatán, Facultad de Medicina Veterinaria y Zootecnia	27
UBC	University of British Columbia, Cowan Vertebrate Museum	20
UCLA	University of California, Los Angeles, Dickey Collection	36
UCM	University of Colorado Museum	37
UCOCV	University of Central Oklahoma, Collection of Vertebrates	58
UCONN	University of Connecticut	38
UCSB	University of California, Santa Barbara, Santa Barbara Vertebrate Museum	36
UDEL	University of Delaware	38
UF	University of Florida, Florida Museum of Natural History	39
UFHNSH	Utah Field House of Natural History State Park	68
UGAMNH	University of Georgia, Museum of Natural History	39
UGDZ	University of Guelph	22
UIDA	University of Idaho, Bird and Mammal Museum	40
UIMNH	University of Illinois, Museum of Natural History	41
UKEN	University of Kentucky	45
UM	University of Memphis, Mammal Collection	63
UMA	University of Massachusetts, Museum of Zoology	48
UMAN	University of Manitoba, Zoological Collection	20
UMD	University of Minnesota, Duluth	50
UMF	University of Maine, Farmington	46
UMHB	University of Mary Hardin-Baylor	66
UMMZ	University of Michigan, Museum of Zoology	49
UMNH	University of Utah, Utah Museum of Natural History	68
UMO	University of Maine	46
UMZM	University of Montana, Zoological Museum	51
UNC-B*	University of Northern Colorado	37
UNCW	University of North Carolina at Wilmington	56
UND	University of North Dakota, Vertebrate Museum	57
UNEVR	University of Nevada, Museum of Biology	53
UNH	University of New Hampshire	53
UNI	University of Northern Iowa	43
UNO	University of Nebraska at Omaha	52
UNSM	University of Nebraska State Museum	52
UOMNH	University of Oregon, Museum of Natural History	59

APPENDIX VII.— *Continued.*

<u>Acronym</u>	<u>Collection name</u>	<u>Page</u>
URIMC	University of Rhode Island, Mammal Collection	61
USANHC	University of South Alabama, Vertebrate Natural History Collection	29
USD	University of South Dakota	62
USDAK	W. H. Over State Museum	62
USI	University of Southern Indiana	42
USNM	United States National Museum of Natural History	38
USRC	University of Regina	23
UTA	University of Texas at Arlington	66
UTEP	University of Texas at El Paso, Centennial Museum	66
UTLPA	University of Texas at Austin, Laboratory of Physical Anthropology	66
UTMZ	University of Tennessee, Museum of Zoology	63
UV	Universidad del Valle, Colección de Mamíferos (Colombia)	24
UWBM	University of Washington, Thomas Burke Memorial Washington State Museum	70
UWI*	University of the West Indies (Trinidad and Tobago)	29
UWMA	University of Wisconsin, Milwaukee, Department of Anthropology	71
UWMIL	University of Wisconsin, Milwaukee, Department of Biological Sciences	71
UWSP	University of Wisconsin, Stevens Point, Museum of Natural History	71
UWZM	University of Wisconsin, Zoological Museum	71
VCU	Virginia Commonwealth University	69
VFWD	Vermont Fish and Wildlife Department	69
VMKSC	Kearney State University, Vertebrate Museum	52
VMNH	Virginia Museum of Natural History	69
VPIMM	Virginia Polytechnic University, Mammal Museum	69
VSC-L	Lyndon State College, Mammal Collection	69
WACA	Walnut Canyon National Monument	31
WCW	Whitman College	70
WFIS	Wagner Free Institute of Science	61
WFUVC	Wake Forest University, Vertebrate Collection	56
WGD	Washington Game Department	70
WICA	Wind Cave National Park	62
WIU	Western Illinois University, Museum of Natural History	41
WKSU	Western Kentucky State University	45
WMM	Witte Memorial Museum	67
WNHM	Oklahoma Baptist University, Webster Natural History Museum	58
WNMU	Western New Mexico University	54
WPMM	State Museum of Pennsylvania	60
WSBC	Wichita State University	44
WSC	Westfield State College, Museum and Herbarium	48
WSNM	White Sands National Monument	54
WSU	Weber State University, Bird and Mammal Collection	68
WSUMNH	Wayne State University, Museum of Natural History	49
WTSU	West Texas A&M University, Natural History Collection	67
WU	Wayland University	66
WUME	Willamette University	59
WVMS	Marshall University, West Virginia Mammal Survey	71
WWF	Welder Wildlife Foundation	67
WWM	Werner Wildlife Museum	72
YNP	The Yosemite Museum	36
YPM	Yale University, Peabody Museum of Natural History	38
ZNP	Zion National Park	68
ZTNH	University of Vermont, Zadock Thompson Natural History Collections	69

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