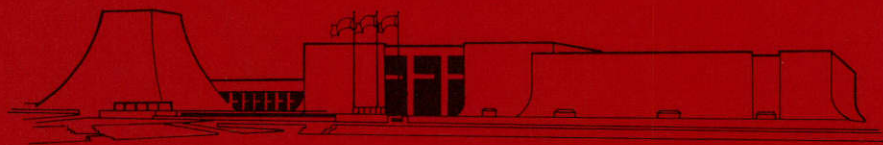


Z
TT300.7
M972
#5

MUSEOLOGY



TEXAS TECH UNIVERSITY

Department of Zoology

April 1979

A Guide To The Literature Concerning The Management Of Recent Mammal Collections

by

Stephen L. Williams, René Laubach, and
Christyna M. Laubach

A PUBLICATION OF THE
MUSEUM SCIENCE PROGRAM

NO. 5
27 APRIL 1979

GOVERNMENT

PRINTS

AUG 14 1975

**A GUIDE TO THE LITERATURE CONCERNING
THE MANAGEMENT OF RECENT MAMMAL
COLLECTIONS**

Dallas **STEPHEN L. WILLIAMS, RENÉ LAUBACH, and CHRISTYNA M. LAUBACH**

Management of Recent mammal collections involves numerous activities such as the acquisition, processing, storage, maintenance, and utilization of specimens. The diversity and complexity of many of these activities often challenges those individuals concerned with such endeavors. As a result, various aspects of collection management have been discussed in the literature, thus promoting exchange of ideas, improving techniques and procedures, and encouraging standardization. The following bibliography was assembled to serve as a reference to the extensive literature on the management of systematics research collections, with special emphasis given to collections of Recent mammals.

A Guide to the Management of Recent Mammal Collections by S. L. Williams, R. Laubach, and H. H. Genoways (Spec. Publ. Carnegie Mus. Nat. Hist., 4:1-105), emphasized management practices that heretofore have received little or no coverage in the literature. Our bibliography has been designed to complement and supplement that *Guide* by including, among other things, topics on collecting methods and specimen preparation techniques that were omitted from the earlier publication because of the availability of this information through other sources. It is organized in the same manner as the *Guide* with six major sections (General, Acquisition, Processing, Storage, Maintenance, and Utilization) divided into appropriate subsections to facilitate utilization. To avoid the duplication of citations resulting from use of this format, references that cover more than two topics have been placed under a more generalized heading in the appropriate section.

Because the subject matter of collection management is diverse and the literature in many cases extensive, it is difficult to develop a totally comprehensive bibliography. With a few exceptions, references were restricted to those written in English and that had North American coverage or application. In most instances, popular articles of well-documented procedures were omitted.

In preparation of this manuscript, we acknowledge the assistance provided by several individuals, particularly Dr. Hugh Genoways, Dr. Elizabeth King, Mr. Herb Liefer, Ms. Laurie Robbins, Ms. Anna Tauber, and Ms. Kathy Williams. In addition, we extend our appreciation to the following book distributors for providing literature concerning collecting and preparation techniques: Mr. Donald Gerow, Outdoor Supplies, Conestoga Lodge, North Sanbornton, New Hampshire 03269; Mr. G. J. Grantz, 2330 Hamilton Street, Allentown, Pennsylvania 18104; and Mr. Raymond Schubert, P.O. Box 62, Rhinecliff, New York 12574.

GENERAL

COMPREHENSIVE

Aiyappan, A., and S. T. Satyamurti. 1960. Handbook of museum technique. Government of Madras, Madras, xvii+228 pp.

- Allen, D.A., D. E. Owen, and F. S. Wallis. 1960. Administration: handbook for museum curators. Mus. Assoc., London, 51 pp.
- Anderson, R. M. 1943. Instructions for preserving animal specimens for scientific purposes. Spec. Contrib. Nat. Mus., Ottawa, 43:1-34.
- _____. 1965. Methods of collecting and preserving vertebrate animals. Bull. Nat. Mus. Canada, 69:vii+1-199.
- Anonymous. 1944. A field collector's manual in natural history. Washington, D.C., 118 pp.
- _____. 1968. Instructions for collectors, No. 1: mammals (non-marine). Publ. British Mus. (Nat. Hist.), 665:v+1-55.
- Booth, E. S. 1961. How to know the mammals. Wm. C. Brown Co. Publ., Dubuque, Iowa, iv+303 pp.
- de Borhegyi, S. F., and E. A. Dodson. 1960. A bibliography of museums and museum work, 1900-1960. Milwaukee Publ. Museology, 1:1-72.
- de Borhegyi, S. F., E. A. Dodson, and I. A. Hansen. 1961. A bibliography of museums and museum work, 1900-1961. Milwaukee Publ. Museology, 2:1-102.
- Burcaw, G. E. 1972. Introduction to museology. Univ. Idaho Mus., Moscow, 165 pp.
- _____. 1975. Introduction to museum work. Amer. Assoc. State Local Hist., Nashville, Tennessee, vi+202 pp.
- Burns, N. J. 1941. Field manual for museums. Gov. Printing Office, Washington, D.C., xii+426 pp.
- Coleman, L. V. 1927. Manual for small museums. G. P. Putnam's Sons, New York, xiv+395 pp.
- Dowler, R. C., and H. H. Genoways. 1976. Supplies and suppliers for vertebrate collections. Museology, 4:1-83.
- Gentile, J. 1951. Natural history specimens. A handbook for naturalists. Handbk. Western Australia Nat. Club, 2:1-40.
- Giles, R. H., Jr. (ed.). 1971. Wildlife management techniques. Edwards Brothers, Inc., Ann Arbor, Michigan, vii+633 pp.
- Guthe, C. E. 1964. The management of small history museums. Amer. Assoc. State Local Hist., Nashville, Tennessee, 78 pp.
- _____. 1973. So you want a good museum. A guide to the management of small museums. Amer. Assoc. Mus., iii+37 pp.
- Harrison, R. O. 1969. The technical requirements of small museums. Tech. Papers Canadian Mus. Assoc., Ottawa, 1:1-27.
- Humphrey, P. S. 1972. A new organization: the Association of Systematics Collections. Curator, 15:32.
- Jackson, H. H. T. 1926. The care of museum specimens of Recent mammals. J. Mamm., 7:113-118.
- Kittleman, J. M. 1976. Museum mismanagement. Mus. News, 54:44-46.
- Knudsen, J. W. 1966. Biological techniques. Collecting, preserving, and illustrating plants and animals. Harper and Row, New York, xi+525 pp.
- _____. 1972. Collecting and preserving plants and animals. Harper and Row, New York, viii+320 pp.
- Long, C. J. 1970. Museum workers notebook. Privately published, 931 W. Elsmere Pl., San Antonio, Texas, 183 pp.
- MacBeath, G., and J. S. Gooding (eds.). 1969. Basic museum management. Canadian Mus. Assoc., Ottawa, 76 pp.
- Mayr, E., and R. Goodwin. n.d. Biological materials. Part 1. Preserved materials and museum collections. Proc. Nat. Acad. Sci., Washington, D.C., 399:viii+1-20.
- Mayr, E., E. G. Linsley, and R. L. Usinger. 1953. Methods and principles of systematic zoology. McGraw-Hill, New York, ix+328 pp.
- Mosby, H. S. (ed.) 1963. Wildlife investigational techniques. Wildlife Soc., Washington, D.C., xxiv+419 pp.
- United Nations Educational, Scientific, and Cultural Organization. 1968. The conservation of cultural property. UNESCO Press, Paris, 341 pp.

- . 1970. Field manual for museums. UNESCO Press, Paris, 171 pp.
- . 1974. The organization of museums: practical advice. UNESCO Press, Paris, 188+44 pp.
- Wagstaffe, R., and J. H. Fidler. 1968. The preservation of natural history specimens. Philosophical Library, New York, 2:xv+404 pp.
- Wight, H. M. 1938. Field and laboratory techniques in wildlife management. Univ. Michigan Press, Ann Arbor, viii+105 pp.
- Williams, S. L., R. Laubach, and H. H. Genoways. 1977. A guide to the management of Recent mammal collections. Spec. Publ. Carnegie Mus. Nat. Hist., 4:1-105.

PHILOSOPHIES AND POLICIES

- American Museum of Natural History. 1971. Science policy report. Curator, 14:235-240.
- . 1974. A statement of policy and procedures regulating the acquisition and disposition of natural history specimens. Curator, 17:83-90.
- American Society of Mammalogists. 1974. Report and recommendations of the advisory committee for systematic resources in mammalogy. Amer. Soc. Mamm. Published independently, 30 pp.
- Anonymous. 1974. Code of ethics for museum workers. Mus. News, 52:26-28.
- . 1975. Systematics collections and the law—regulations of the USDI that affect systematics and scientific collecting. Assoc. Sys. Coll. Newsletter, 3(5):8.
- Barzun, J., and H. F. Graff. 1957. The modern researcher. Harcourt, Brace and World, New York, 386 pp.
- Bostick, W. A. 1974. The ethics of museum acquisitions. Museum, 26:26-33.
- Cohen, D. M., and R. F. Cressey. 1969. Natural history collections, past-present-future. Proc. Biol. Soc. Washington, 82:559-762.
- Colbert, E. G. 1958. On being a curator. Curator, 1:7.
- Constable, W. G. 1941. Museum ethics. Mus. News, 18(19):9-12.
- Dickinson, J. C. 1972. Notice of a new report entitled "Systematics collections: a national plan." The Great Basin Naturalist, 32:238.
- Douglas, R. A. 1967. Museum ethics: practice and policy. Mus. News, 45(5):18-21.
- Doutt, J. K. 1946. In trust for the future. Pennsylvania Game News, 17:8-9, 27.
- Edwards, S. R., and L. D. Grotta (eds.). 1976. Systematics collections and the law. Assoc. Syst. Coll., Lawrence, Kansas, ix+27 pp.
- Emerson, W. K., and A. Ross. 1965. Invertebrate collections: trash or treasure? Curator, 8:333-346.
- Field Museum of Natural History. 1971. Policy statement concerning acquisition of antiquities. Curator, 14:232-235.
- Fitzgerald, M. H. 1973. Museum accreditation: professional standards. Amer. Assoc. Mus., Washington, D.C., viii+116 pp.
- Genoways, H. H., and J. R. Choate. 1976. Federal regulations pertaining to collection, import, export, and transport of scientific specimens of mammals. Suppl. J. Mamm., 57:1-9.
- Grinnell, J. 1922. The museum conscience. Mus. Work, 4:62-63.
- Hairston, N. G. 1970. Biological field work. Science, 169:8.
- Harrison, R. 1969. The need for a collecting policy. Mus. J., 69:113-115.
- International Council of Museums. 1970. Ethics of acquisition. ICOM [International Council of Museums] News, 23:49-58.
- Irwin, H. S., W. W. Payne, D. M. Bates, and P. S. Humphrey (eds.). 1973. America's systematics collections: a national plan. Assoc. Syst. Coll., Lawrence, Kansas, xii+63 pp.
- Johnels, A. G. 1973. Role of natural history museums. Museum, 25:54-59.
- Mayr, E. 1973. Museums and biological laboratories. Breviora, 416:1-7.
- McGaugh, M. H., and H. H. Genoways. 1976. State laws as they pertain to scientific collecting permits. Museology, 2:1-81.
- Miller, G. S., Jr. 1929. Mammalogy and the Smithsonian Institute. Smithsonian Institute Annual Report, 1928:391-411.

- Montgomery, C. 1962. The role of the museum in research. *Historic Preservation*, 14:100-103.
- Moore, T. E. 1962. Experimental research in the natural history museum. *Mus. News*, 41(4):30-33.
- Netting, M. G. 1962. Objectives of museum research in natural history. *Mus. News*, 41(3):30-34.
- Nicholson, T. D. 1974. NYSAM policy on the acquisition and disposition of collection materials. *Curator*, 17:5-9.
- . 1974. The publication of a statement of guidelines for the management of collections. *Curator*, 17:81-82.
- . 1974. Science and the scientific staff at the American Museum of Natural History. *Curator*, 17:173-176.
- Osborn, H. F. 1921. Resemblances and contrasts between zoologic and palaeontologic research in mammalogy. Desirability of uniform standards and systems of classification, in description, in measurement, in reasoning. *J. Mamm.*, 2:1-11.
- Page, I. H. 1965. Why bibliography? *Science*, 149:8.
- Parr, A. E. 1963. The functions of museums: research centers or show places? *Curator*, 6:20-31.
- . 1963. Curatorial functions in education. *Curator*, 6:287-291.
- Phillips, A. R. 1974. The need for education and collecting. *Bird Banding*, 45:24-28.
- Ripley, S. D. 1973. Museums and the natural heritage. *Museum*, 25:10-15.
- Rodeck, H. G. 1962. The research role of the local natural history museums. *Mus. News*, 41(3):34-37.
- . 1964. Private collections policy in institutions. *Curator*, 7:7-13.
- Rudloe, J. 1964. The biological collector. *Nat. Hist.*, 73:59-62.
- Smith, A. C. 1962. The materials of research in natural history. *Mus. News*, 41(4):34-37.
- Squires, D. F. 1969. Schizophrenia: the plight of the natural history curator. *Mus. News*, 47(7):18-21.
- Stone, W. B. 1974. The case for trapping. *Conservationist*, 28(4):34-35.
- Swinton, W. 1958. Museum standards. *Curator*, 1:61-65.
- Van Gelder, R. G. 1970. Voucher specimens in comparative cytogenetic studies. Pp. 445-450, in *Comparative mammalian genetics* (K. Benirschke, ed.), Springer-Verlag, New York, xxi+473 pp.
- Walker, B. 1963. The curator as a custodian of collections. *Curator*, 6:292-295.
- Williams, P. M. 1973. Museums of natural history and the people who work in them. *St. Martin's*, New York, 120 pp.
- Zelle, A. 1972. ICOM ethics of acquisition: a report to the profession. *Mus. News*, 50(8):31-33.

ACQUISITION

COLLECTING AND HANDLING TECHNIQUES

- Andrzejewski, R., and H. Wroclawek. 1963. Metal cylinders as a live-trap with a bait. *Acta Theriol.*, 6:297-300.
- Anonymous. n.d. How to collect and prepare study skins of small mammals. *Turtax Serv. Leaf.*, 40:1-4.
- . 1941. Publications on trapping. *Leaf. U.S. Dept. Int., Fish Wildlife Serv.*, 194:1-2.
- . 1946. *The trapper's companion*. A. R. Harding Publ. Co., Columbus, Ohio, 158 pp.
- . 1951. *The trapper's handbook*. A. R. Harding Publ. Co., Columbus, Ohio, 64 pp.
- . 1970. Guidelines to biological field studies. *Science*, 169:8.
- Anthony, H. E. 1945. The capture and preservation of small mammals for study. *Amer. Mus. Nat. Hist., Sci. Guide*, 61:1-54.
- Arnold, L. W. 1943. An effective shipping crate for desert rodents. *J. Wildlife Mgmt.*, 7:345-346.
- Bailey, V. 1921. Capturing small mammals for study. *J. Mamm.*, 2:63-68.
- . 1932. Trapping animals alive. *J. Mamm.*, 13:337-342.

- _____. 1933. Live traps for game farms. *Game Breeder*, 37:2-3.
- _____. 1933. Trapping animals alive and uninjured. Leaf. Cornell Rural School, 27:9-25.
- _____. 1936. A humane method of killing mammals. *J. Mamm.*, 17:283-284.
- Balsler, D. S., and C. Kinsey. 1962. A variable size anesthetizing chamber for animal handling. *J. Mamm.*, 43:552-555.
- Beer, J. R. 1964. Bait preferences of some small mammals. *J. Mamm.*, 45:632-634.
- Blair, W. F. 1941. A simple and effective live trap for small mammals. *J. Wildlife Mgmt.*, 5:191-193.
- Brand, R. H. 1956. A protective device for reducing trap disturbance. *J. Mamm.*, 37:428-431.
- Brown, E. B., III, W. R. Saatela, and W. D. Schmid. 1969. A compact, lightweight live trap for small mammals. *J. Mamm.*, 50:154-155.
- Brown, J. C., and D. M. Stoddart. 1977. Killing mammals and general postmortem methods. *Mamm. Rev.*, 7:64-94.
- Buech, R. R. 1974. A new live trap and techniques for winter trapping small mammals. *Canadian Field Nat.*, 88:317-323.
- Buechner, H. K., A. M. Harthoorn, and J. A. Lock. 1960. Recent advances in field immobilization of large mammals with drugs. *Trans. N. Amer. Wildlife Nat. Res. Conf.*, 25:415-422.
- Burt, W. H. 1927. A simple live trap for small mammals. *J. Mamm.*, 8:302-304.
- _____. 1948. *The mammals of Michigan*. Univ. Michigan Press, Ann Arbor, xv+288 pp.
- _____. 1957. *Mammals of the Great Lakes region*. Univ. Michigan Press, Ann Arbor, xv+246 pp.
- Carter, H. H., and C. H. Johnson. 1961. Small mammals of the Reading area. *Reading Nat.*, 13:29-40.
- Chamberlain, E. B., Jr. 1941. Notes on small mammal trapping. *Bull. South Carolina Acad. Sci.*, 7:21-22.
- Chansler, W. S. 1955. *Successful trapping methods*. D. Van Nostrand, New York, 151 pp.
- Chitty, D. 1937. A ringing technique for small mammals. *J. Anim. Ecol.*, 6:36-53.
- Chitty, D., and D. A. Kempson. 1949. Prebaiting small mammals and a new design of live trap. *Ecology*, 30:536-542.
- Clark, W. F. 1953. Trapping and fur management. *Bull. Cornell Univ., Cornell 4-H Club*, 101:1-43.
- Cockrum, E. L. 1947. Effectiveness of live traps versus snap traps. *J. Mamm.* 28:186.
- Coleman, R. H. 1950. DDT protects bait from ants. *J. Mamm.*, 31:199.
- Cooper, J. M. 1938. Snares, deadfalls, and other traps of the northern Algonquins and northern Athabaskans. *Catholic Univ. Amer. Anthro. Ser.*, 5:1-144.
- _____. 1949. Traps. *Bull. Bur. Amer. Ethnol.*, Washington, D.C., 143:265-276.
- Dailey, E. J. n.d. *The trapper's partner*. Privately published, Ogdensburg, New York, 62 pp.
- Davis, R. A. 1961. A simple live-trap for small mammals. *Proc. Zool. Soc. London*, 137:631-633.
- Davis, W. B. 1974. *The mammals of Texas*. Bull. Texas Parks and Wildlife Dept., 41:1-267.
- DeBlase, A. F., and R. E. Martin. 1974. *A manual of mammalogy with keys to families of the World*. Wm. C. Brown, Dubuque, Iowa, xv+329 pp.
- Dearborn, N. 1910. *Trapping on the farm*. Bur. Biol. Surv., Dept. Agr., Washington, D.C., 823:451-484.
- Delmont, J. 1931. *Catching wild beasts alive*. Hutchinson and Co., London, 285 pp.
- Demyashev, M. P. 1933. An improved trap for rodents. *Rev. Microbiol.*, 12:211-212.
- Denny, R. N., and R. B. Gill. 1970. Annotated bibliography on mammal immobilization with drugs. *Spec. Rep. Colorado Div. Game, Fish, Parks*, 15:iv+1-27.
- Dice, L. R. 1925. A live trap for small mammals. *J. Mamm.*, 6:202.
- Drahos, N. 1951. Traps. Part I. Evolution and history. Part II. Search for a more humane trap. *New York State Conserv.*, 6:8-12, 24-26.
- Drewien, R. C., H. M. Reeves, P. F. Springer, and T. L. Kuck. 1967. Back-pack unit for capturing waterfowl and upland game by night-lighting. *J. Wildlife Mgmt.*, 31:778-783.
- Duran, J. C. 1968. Comparison of live traps with snap traps. *J. Arizona Acad. Sci.*, 5:18.

- Edgar, R. L. 1962. A compact live trap for small mammals. *J. Mamm.*, 43:547-550.
- Evans, B. A. 1975. Sensitizing Sherman small-mammal live traps to improve their efficiency. *Northwest Sci.*, 49:160-162.
- Fay, F. H. 1960. Technique for trapping small tundra mammals in winter. *J. Mamm.*, 41:141-142.
- Fitch, H. S. 1950. A new style live-trap for small mammals. *J. Mamm.*, 31:364-365.
- . 1951. A simplified type of funnel trap for reptiles. *Herpetologica*, 7:77-80.
- . 1954. Seasonal acceptance of bait by small mammals. *J. Mamm.*, 35:39-47.
- Fowle, C. D., and R. Y. Edwards. 1954. The utility of break-back traps in population studies of small mammals. *J. Wildlife Mgmt.*, 18:503-508.
- Getz, L. L., and G. O. Batzli. 1974. A device for preventing disturbance of small mammal live-traps. *J. Mamm.*, 55:447-448.
- Getz, L. L., and M. L. Prather. 1975. A method to prevent removal of trap bait by insects. *J. Mamm.*, 56:955.
- Gibson, W. H. 1881. *Camp life in the woods and the tricks of trapping and trap making.* Harper and Brothers, New York, 300 pp.
- Golley, F. B. 1966. *South Carolina mammals.* Charleston Mus., Charlestown, South Carolina, xiv+181 pp.
- Goodnight, C. J., and E. J. Koestner. 1942. Comparison of trapping methods in an Illinois prairie. *J. Mamm.*, 23:435-438.
- Grizzell, R. A. 1952. Selectivity of mirror traps. *J. Wildlife Mgmt.*, 16:114-115.
- Halahan, P. C. 1936. A non-injurious animal trap. *Field*, 168:1501.
- Hall, E. R. 1955. *Handbook of mammals of Kansas.* Misc. Publ. Univ. Kansas Mus. Nat. Hist., 7:1-303.
- . 1962. Collecting and preparing study specimens of vertebrates. *Misc. Publ. Univ. Kansas Mus. Nat. Hist.*, 30:1-46.
- Harding, A. R. n.d. *Steel traps.* A. R. Harding Publ. Co., Columbus, Ohio, 324 pp.
- . 1907. *Deadfalls and snares.* A. R. Harding Publ. Co., Columbus, Ohio, 232 pp.
- . 1935. *Deadfalls and snares.* A. R. Harding Publ. Co., Columbus, Ohio, 218 pp.
- Hatt, R. 1925. A new live trap for field use. *J. Mamm.*, 6:178-181.
- Hess, N. S. 1971. The handling and restraint of mammals. *America's First Zoo*, 23:27-30.
- Hickie, P. 1935. New developments in a small mammal trap. *J. Mamm.*, 16:71-73.
- Holdenried, R. 1954. A new live-catch rodent trap and comparison with two other traps. *J. Mamm.*, 35:267-268.
- Holisova, V., and J. Zejda. 1973. Bait consumption and catch size in catching small mammals. *Zool. Listy*, 22:189-300.
- Hornaday, W. T. 1929. *Taxidermy and zoological collecting.* Charles Scribner's Sons, New York, 364 pp.
- Howard, W. E. 1953. A trigger mechanism for small mammal live traps. *J. Mamm.*, 34:513-514.
- Howard, W. E., and E. M. Brock. 1961. A drift-fence pit trap that preserves captured rodents. *J. Mamm.*, 42:386-391.
- Howell, A. B. 1921. Field suggestions. *J. Mamm.*, 2:117.
- . 1937. Anaesthetizing mammals. *J. Mamm.*, 18:513.
- Hudson, G. E., and J. D. Solf. 1959. Control of small mammals with sunken can pitfalls. *J. Mamm.*, 40:455-457.
- Iverson, S. L., and B. N. Turner. 1969. Under-snow shelter for small mammal trapping. *J. Wildlife Mgmt.*, 33:722-723.
- Johnson, M. W. 1940. A simple "live" trap. *Science*, 92:490.
- Johnson, R. A. 1929. Methods of collecting carcasses. *Science*, 69:333-334.
- Johnson, W. W. 1969. Dispensing bait with a caulking gun. *J. Mamm.*, 50:149.
- Kalmbach, E. R., and J. F. Welch. 1948. Colored rodent baits and their value in safeguarding birds. *J. Wildlife Mgmt.*, 10:353-360.
- Kinney, A. R., D. H. Ecke, and V. I. Miles. 1957. Modification of live-catch rodent trap to protect small mammals. *J. Mamm.*, 38:531-532.

- Kreps, E. 1944. Science of trapping. A. R. Harding Publ. Co., Columbus, Ohio, 229 pp.
- Labisky, R. F. 1959. Night-lighting: a technique for capturing birds and mammals. *Biol. Notes, Illinois Nat. Hist. Surv. Div.*, 40:1-11.
- LaDue, H. J. 1935. Guide for trapping and care of raw furs. Intelligencer Printing Co., Lancaster, Pennsylvania, 70 pp.
- Legge, M. M. 1947. Naturalist's handbook. A collector's guide. Longmans Green, London, 64 pp.
- Linder, R. L., and G. O. Hendrickson. 1956. A door catch for the wooden box trap. *J. Wildlife Mgmt.*, 20:96.
- Linehan, J. T., and L. M. Llewellyn. 1957. An improved box trap for small game and fur animals. Leaf. U.S. Fish Wildlife Serv., 386:1-4.
- Lloyd, H. G. 1963. Spring traps and their development. *Ann. Appl. Biol.*, 51:329-333.
- Lobue, J. P., and R. M. Darnell. 1958. An improved live trap for small mammals. *J. Mamm.*, 39:286-290.
- Loring, J. A. 1946. "Squeaking" animals. *Nature Mag.*, 39:430-432.
- Lynch, V. E. 1935. Trails to successful trapping. A. R. Harding Publ. Co., Columbus, Ohio, 170 pp.
- MacKay, A. A. 1962. An easy method of trapping small taiga mammals in winter. *J. Mamm.*, 43:556-557.
- MacLulich, D. A. 1940. Test of a method of small mammal trapping. *Canadian Field Nat.*, 54:57-58.
- Mailliard, J. 1921. A handy collecting case. *J. Mamm.*, 2:174-176.
- Manville, R. H. 1949. Techniques for capture and marking of mammals. *J. Mamm.*, 30:27-33.
- _____. 1950. A comparison of trapping methods. *J. Mamm.*, 31:377-383.
- Marsden, R. 1952. Electrical method of killing. *World Fishing*, 1(4):127-133.
- McCracken, H., and H. Van Cleve. 1947. Trapping: the craft and science of catching fur-bearing animals. A. S. Barnes and Co., New York, x+196 pp.
- McLaren, I. A., and A. W. Mansfield. 1960. The netting of sea mammals. A report on the Belcher Islands experiment, 1960. *Circ. Fish Res. Board, Canadian Arct. Unit*, 6:1-11.
- Miller, D. H., and L. L. Getz. 1968. A method to reduce winter trap mortality. *J. Mamm.*, 49:147.
- Milstead, W. W. 1959. Drift-fence trapping of lizards on the Black Gap Wildlife Management Area of southwestern Texas. *Texas J. Sci.*, 11:150-157.
- Mitchell, J. A. 1929. Tunnel rat-traps for stores and ships. *Ann. Trop. Med. Parasitol.*, 23:443-447.
- Moore, A. W. 1936. Improvements in live trapping. *J. Mamm.*, 17:372-374.
- Morris, R. F. 1943. A new live-trap for small mammals. *Canadian Field Nat.*, 57:113-114.
- Morris, R. D. 1968. A comparison of capture success between Sherman and Longworth live traps. *Canadian Field Nat.*, 82:84-87.
- Morton, J. E. 1950. Collecting and preserving zoological specimens. *Tuatara*, 3:104-114.
- Mosby, H. S. 1955. Live trapping objectionable animals. *Circ. Virginia Poly. Inst., Agr. Ext. Serv.*, 667:1-4.
- Mosby, H. S. (ed.). 1960. Manual of game investigational techniques. *Wildlife Soc.*, xxii+354 pp.
- Mossman, A. S., and R. G. R. Reynolds. 1962. African techniques for capturing mammals. *J. Mamm.*, 43:419-420.
- Munro, T., and P. Gillespie. 1919. Further notes on ancient wooden traps. *Proc. Soc. Antiq. Scotland*, 53:162.
- Murry, R. E., and D. Dennett. 1963. A preliminary report on the use of tranquilizing compounds in handling wildlife. *Proc. Ann. Conf. Southeastern Assoc. Game and Fish Comm.*, 17:134-139.
- Navakowski, N. 1968. Humane trapping. *Rep. Canadian Wildlife Serv.*, 32:27-29.
- Nicholson, H. P., and H. H. Vetter. 1950. A lethal trap for capturing small mammals with their ectoparasites. *J. Parasitol.*, 36:235-237.

- Patric, E. F. 1970. Bait preference of small mammals. *J. Mamm.*, 51:179-182.
- Pelikan, J., J. Zejda, and V. Holisova. 1972. Influence of prebaiting on the catch of small mammals. *Zoologické Listy*, 21:209-225.
- Pequegnat, W. E., and D. H. Thomson. 1949. An electric fence for studying rodent populations. *J. Entomol. Zool.*, 41:1-37.
- Petrides, G. A. 1946. Snares and deadfalls. *J. Wildlife Mgmt.*, 10:234-238.
- Phillips, G. C., and K. East. 1961. The relative efficiency of some small mammal traps. *Proc. Zool. Soc. London*, 137:637-640.
- Plasterer, H. 1945. Hints for trappers. *Pennsylvania Game News*, 16:12-13.
- Primrose, C. 1922. Further notes on trapping. *J. Bombay Nat. Hist. Soc.*, 28:1129-1130.
- _____. 1937. Trapping small mammals. *J. Darjeeling Nat. Hist. Soc.*, 11:107-118.
- Pruitt, W. O., Jr. 1959. A method of live-trapping small taiga mammals in winter. *J. Mamm.*, 40:139-143.
- Pruitt, W. O., Jr., and C. V. Lucier. 1958. On the relative efficiency of two kinds of traps. *J. Mamm.*, 39:157.
- Quast, J. C., and W. E. Howard. 1953. Comparison of catch of two sizes of small-mammal live traps. *J. Mamm.*, 34:514-515.
- Rausch, R. 1947. Suggestions for the handling of certain mammals. *J. Wildlife Mgmt.*, 11:189.
- Rempel, R. D., and R. C. Bertram. 1975. The Stewart modified corral trap. *California Fish and Game Comm.*, 61:237-239.
- Richter, W. C. 1955. A technique for night identification of animals. *J. Wildlife Mgmt.*, 19:159-160.
- Ripley, W. E. 1949. Tagging salmon with blowgun darts. *Copeia*, 1949:97-100.
- Rose, R. K. 1973. A small mammal live trap. *Kansas Acad. Sci.*, 76:14-17.
- Roudabush, R. L. 1942. An ultra-modern rat trap. *Bull. Ward's Nat. Sci.*, 16:40-41.
- Ruff, F. J. 1939. Region 8 technique of wildlife inventory. *Trans. N. Amer. Wildlife Conf.*, 4:542-545.
- Ryckman, R. E., K. C. Fischer, C. T. Ames, and C. C. Lindt. 1953. The electric fence as an aid in field studies of rodents and their ectoparasites. *California Fish and Game Comm.*, 39:489-496.
- Salyer, J. C. 1955. Improvements in the cannon net trap. *U.S. Fish Wildlife Ser., Branch Wildl. Res., Wildlife Mgmt. Ser.*, 12:1-27.
- Scheffer, T. H. 1934. Hints on live trapping. *J. Mamm.*, 15:197-202.
- Scheffer, V. B. 1940. A Nootka trap for small mammals. *Murrelet*, 21:71-72.
- Schorger, A. W. 1951. A brief history of the steel trap and its use in North America. *Trans. Wisconsin Acad. Sci. Arts Lett.*, 40:171-199.
- Schubert, R. 1972. The craft and skills of trapping wildlife. Privately published, P.O. Box 2811, Newburgh, New York, 48 pp.
- Seal, U. S., and A. W. Erickson. 1969. Immobilization of carnivora and other mammals with phencyclidine and promazine. *Fed. Proc.*, 28:1410-1419.
- Sealander, J. A., and D. James. 1958. Relative efficiency of different small mammal traps. *J. Mamm.*, 39:215-223.
- Shadle, A. R. 1942. Metal restraining tube for animals. *J. Mamm.*, 23:441-443.
- Shadle, A. R., and I. Skarupinski. 1935. A zipper tube for holding small live animals. *Science*, 82:335.
- Shaw, M. W., and C. Milner. 1967. The use of insulating covers for Longworth traps. *J. Zool.*, 153:546-551.
- Smith, G. C., D. W. Kaufman, R. M. Jones, J. B. Gentry, and M. H. Smith. 1971. The relative effectiveness of two types of snap traps. *Acta Theriol.*, 16:284-288.
- Smith, M. H., R. M. Chew, and J. B. Gentry. 1969. New technique for baiting snap traps. *Acta Theriol.*, 14:271.
- Smith, R. B. 1971. An electric fence technique for collecting small vertebrates. *Herpetologica*, 27:488-491.
- Soper, J. D. 1944. On the winter trapping of small mammals. *J. Mamm.*, 25:344-353.

- Stains, H. J., J. Ozment, and A. Lippoldt. 1961. An electric fence enclosure for small mammals. *J. Mamm.*, 42:391-395.
- Stains, H. J., and R. H. Baker. 1958. Furbearers in Kansas: a guide to trapping. Misc. Publ. Univ. Kansas, Mus. Nat. Hist., 18:1-100.
- Steggerda, M. 1944. Animal traps and snares used by the Maya Indians of Yucatán, México. *Amer. Anthropol.*, 46:269-272.
- Stout, I. J., and D. E. Sonenshine. 1973. A convenient bait for small mammal live trapping studies. *Acta Theriol.*, 18:123.
- Sugden, L. G. 1956. A technique for closing gates on big-game live traps by remote control. *J. Wildlife Mgmt.*, 20:467.
- Swenson, L. E. 1953. A bait for small mammals. *J. Mamm.*, 34:137.
- Thomas, L. J. 1945. Efficient handler for small mammals. *Science*, 101:496.
- Tomlinson, J. 1960. A collecting device for small land animals. *Veliger*, 2:97-98.
- Twigg, G. I. 1977. Techniques with captive mammals. *Mamm. Rev.*, 7:41-62.
- Verts, B. J. 1961. A convenient method of carrying and dispensing baits. *J. Mamm.*, 42:283.
- Vetter, M. H., and H. P. Nicholson. 1950. A lethal trap for capturing small mammals with their ectoparasites. *J. parasitol.*, 36:235-237.
- Vorhies, C. T. 1947. Review of new techniques—fur bearers and other small mammals. *Trans. N. Amer. Wildlife Conf.*, 12:324-329.
- Ward, F. D., and R. G. Leonard. 1968. Rodents drown in improvised mast trap. *J. Mamm.*, 49:530.
- Wells, M. M. 1932. The collection and preservation of animal forms. Gen. Bio. Supply House, Chicago, Illinois, 72 pp.
- Wendell, E. D., and D. L. Campbell. 1965. Two techniques to reduce capture mortality. *J. Mamm.*, 46:707.
- White, T. 1906. Traps and poison. *Hunter, Trader, Trapper*, 13:41-42.
- Wiener, J. G., and M. H. Smith. 1972. Relative efficiencies of four small mammal traps. *J. Mamm.*, 53:868-873.
- Will, R. L. 1962. Comparative methods of trapping small mammals in an Illinois woods. *Trans. Illinois Acad. Sci.*, 55:21-34.
- Williamson, M. J., and M. R. Pelton. 1972. New design for a large portable mammal trap. *Proc. Annual Conf. Southeastern Assoc. Game and Fish Comm.*, 25:315-322.
- Wilson, K. A. 1958. Trapping North Carolina furbearers. *North Carolina Wildlife Res. Comm.*, Fed. Aid. Project, W-6-R, 55 pp.

SPECIAL COLLECTING TECHNIQUES

Marsupialia

- Atkeson, T. Z., and D. C. Hulse. 1953. Trapping versus night hunting for controlling raccoons and opossums within sanctuaries. *J. Wildlife Mgmt.*, 17:159-162.

Insectivora

- Crowcroft, P. 1951. Live-trapping British shrews. *J. Mamm.*, 32:355-356.
- Doremus, H. M. 1964. Livetrapping the short-tailed shrew, *Blarina brevicauda*. *J. Mamm.*, 45:144-146.
- Foster, C. A. 1945. Techniques in trapping shrews. *J. Mamm.*, 26:197.
- MacLeod, C. F., and J. L. Lethiecq. 1963. A comparison of two trapping procedures for *Sorex cinereus*. *J. Mamm.*, 44:277-278.
- Moore, A. W. 1940. A new mole trap. *J. Mamm.*, 21:223-225.
- Prince, L. A. 1941. Water traps capture the pigmy shrew (*Microsorex hoyi*) in abundance. *Canadian Field Nat.*, 55:72-73.
- Rudge, A. J. B. 1963. A study of mole trapping. *Proc. Zool. Soc. London*, 140:330-334.
- . 1966. Catching and keeping live moles. *J. Zool.*, 149:42-45.

Scheffer, T. S. 1917. Trapping moles and utilizing their skins, with especial reference to the Pacific Coast States. *Bull. Dept. Agr. Farmer's*, 832:1-13.

Chiroptera

- Agacino, E. M. 1938. Un nouvel appareil pour la capture des Chiropteres. *Mammalia*, 2:89-94.
- Bleitz, D. 1970. Mist nets and their use. *Inland Bird Banding News*, 42:43-52.
- Burrell, A. E. 1937. A new method of collecting bats. *J. Mamm.*, 18:478-480.
- Constantine, D. G. 1958. An automatic bat-collecting device. *J. Wildlife Mgmt.*, 22:17-22.
- Dalquest, W. W. 1954. Netting bats in tropical Mexico. *Trans. Kansas Acad. Sci.*, 57:1-10.
- DeHaven, R. W. 1969. Telescoping mist-net poles. *Inland Bird Banding News*, 41:84-85.
- Glass, B. P. 1956. Effectiveness of Japanese mist nets for securing bats in temperate latitudes. *Southwestern Nat.*, 1:136-138.
- Greenhall, A. M. 1963. Use of mist nets and strychnine for vampire control in Trinidad. *J. Mamm.*, 44:396-399.
- Greenhall, A. M., and J. L. Paradiso. 1968. Bats and bat banding. *Res. Serv. Publ. U.S. Fish Wildlife*, 72:iv+1-48.
- Greenlaw, J. S., and J. Swinbroad. 1967. A method for constructing and erecting aerial nets in a forest. *Bird Banding*, 38:114-119.
- Hamilton-Smith, E. 1964. Field equipment for collecting bats. *Australian Bat Res. News*, 7:7-10.
- . 1966. A portable Constantine trap. *Australian Bat Res. News*, 5:2-3.
- Hitchcock, H. B. 1963. An unintended bat trap. *J. Mamm.*, 44:577-578.
- Humphrey, P. S., D. Bridge, and T. E. Lovejoy. 1968. A technique for mist netting in the forest canopy. *Bird Banding*, 39:43-50.
- Jackson, H. H. T. 1926. Catching bats with gill nets. *J. Mamm.*, 7:231.
- Jenkison, M. A., and R. M. Mengel. 1970. A device for handling mist nets in the dark. *Bird Banding*, 41:38-39.
- Johns, J. E. 1963. A new method of capture utilizing the mist net. *Bird Banding*, 34:209-213.
- Koestner, E. J. 1952. A method of collecting bats. *J. Tennessee Acad. Sci.*, 17:301.
- Ludwig, R. E. 1968. Easy made portable net poles. *Inland Bird Banding News*, 4:142-143.
- Lyman, S. H. 1926. Collecting bats with a net. *J. Mamm.*, 7:230.
- McNeil, R. 1967. Modifications of the use of the Japanese mist nets. *Bird Banding*, 38:149-151.
- Nelson, J. 1965. Techniques and equipment: hanging of mist nets. *Australian Bat Res. News*, 4:1-2.
- Rausch, R. 1946. Collecting bats in Ohio. *J. Mamm.*, 27:275-276.
- Reisinger, J. H. 1968. Bird bags and mist net bags. *Inland Bird Banding News*, 40:204-205.
- Tuttle, M. D. 1974. Bat Trapping: results and suggestions. *Bat Res. News*, 15:4-7.
- . 1974. An improved trap for bats. *J. Mamm.*, 55:475-477.
- . 1976. Collecting techniques. Pp. 71-88, in *Biology of bats of the new world family Phyllostomatidae, Part 1* (R. J. Baker, J. K. Jones, Jr., and D. C. Carter, eds.), *Spec. Publ. Mus., Texas Tech Univ.*, 10:1-218.
- Van Tyne, J. 1933. The trammel net as a means of collecting bats. *J. Mamm.*, 14:145-146.
- Villa-R., B. 1966. Los murciélagos de México. *Universidad Nacional Autónoma de México. Instituto de Biología*, xvi+491 pp.
- Whitaker, A. H. 1972. An improved mist net rig for use in forests. *Bird Banding*, 43:1-8.
- Wimastt, W. A., A. Guerriere, and R. Horst. 1973. An improved cage design for maintaining vampires (*Desmodus*) and other bats for experimental purposes. *J. Mamm.*, 54:251-254.

Lagomorpha

- Aldous, C. M. 1946. Box trap for snowshoe hares and small rodents. *J. Wildlife Mgmt.*, 10:71-72.
- Anonymous. 1936. Directions for organizing and conducting rabbit drives. *Surv. Wildlife Leaf.*, U.S. Dept. Agric., 59:1-2.

- Brocke, R. H. 1972. A live snare for trap-shy snowshoe hares. *J. Wildlife Mgmt.*, 36:988-991.
- Burton, M. 1950. Humane rabbit-trapping—the end of a 30 year quest. *Illus. London News*, 216:184.
- Cushwa, C. T., and K. P. Burnham. 1974. An inexpensive live trap for snowshoe hares. *J. Wildlife Mgmt.*, 38:939-941.
- Dalquest, W. W. 1939. Trapping *Ochotona*. *J. Mamm.*, 20:108-109.
- Erskine, R. 1954. Clearing up rabbits with the long net. *Field*, 204:171.
- Griffith, R. E., Jr., and J. Evans. 1970. Capturing jackrabbits by night-lighting. *J. Wildlife Mgmt.*, 34:637-639.
- Jackson, D. G. 1962. Dollars from jacks. *New Mexico Conserv. Dept. Wildlife*, 7:22.
- Keith, L. B. 1965. A live snare and a tagging snare for rabbits. *J. Wildlife Mgmt.*, 29:877-880.
- Labisky, R. F. 1968. Nightlighting: its use in capturing pheasants, prairie chickens, bobwhites and cottontails. *Biol. Notes, Illinois Nat. Hist. Surv.*, 62:1-12.
- Libby, W. L. 1957. A better snowshoe hare live trap. *J. Wildlife Mgmt.*, 21:452.
- Miller, F. W. 1939. The hand capture of conies. *J. Mamm.*, 20:380.
- Richter, C. P., and J. T. Emlen, Jr. 1945. A modified rabbit box trap for use in catching live wild rats for laboratory and field studies. *Pub. Health Rep.*, 60:1303-1308.
- Sawyer, F. E. 1936. A painless rabbit trap. *Field*, 168:237.
- Stambaugh, C. F. 1946. Box trapping rabbits pays. *Pennsylvania Game News*, 17:8, 27.

Rodentia

- Aldous, S. E. 1946. Live trapping and tagging muskrats. *J. Wildlife Mgmt.*, 10:42-44.
- . 1946. Box trap for snowshoe hares and small rodents. *J. Wildlife Mgmt.*, 10:71-72.
- . 1947. Muskrat trapping on Sand Lake National Wildlife Refuge, South Dakota. *J. Wildlife Mgmt.*, 11:77-90.
- Anonymous. 1943. Live trapping beavers. *Texas Game and Fish Comm.*, 2:14-15.
- Atkeson, T. Z. 1958. Shotguns versus rifles in gray squirrel hunting. *J. Wildlife Mgmt.*, 22:99-100.
- Babinska, J., and E. Bock. 1969. The effect of prebaiting on captures of rodents. *Acta Theriol.*, 14:267-270.
- Bailey, V. 1926. Construction and operation of Biological Survey beaver trap. *Misc. Circ., U.S. Dept. Agri.*, 69:1-4.
- Baker, R. J., and S. L. Williams. 1972. A live trap for pocket gophers. *J. Wildlife Mgmt.*, 36:1320-1322.
- Baumgartner, L. L. 1940. Trapping, handling, and marking fox squirrels. *J. Wildlife Mgmt.*, 4:444-450.
- Becker, E. M. 1940. An effective ground squirrel trap. *Bull. California Dept. Agr.*, 29:152.
- Beer, J. R. 1959. A method of trapping ground squirrels. *J. Mamm.*, 40:445.
- Bry, E. 1970. Muskrats and trapping. *North Dakota Outdoors*, 33:8-10.
- Carley, C. J., and F. F. Knowlton. 1971. Trapping wood rats: effectiveness of several techniques and differential catch by sex and age. *Texas J. Sci.*, 22:248-251.
- Carpenter, J. W., and R. P. Martin. 1969. Capturing prairie dogs for transplanting. *J. Wildlife Mgmt.*, 33:1024.
- Chelkowska, H. 1967. An attempt at comparing two methods of trapping small rodents (in pitfalls and live traps). *Ekologia Polska*, 15:779-785.
- Chitty, D. 1938. Live trapping and transport of voles in Great Britain. *J. Mamm.*, 19:65-70.
- Couch, L. K. 1937. Trapping and transporting live beavers. *Bull. U.S. Dept. Agr. Farmers'*, 178:1-18.
- . 1942. Trapping and transplanting live beavers. *Bull. U.S. Dept. Int. Field Wildlife Serv. Conserv.*, 30:1-20.
- Demyashev, M. P. 1933. An improved trap for rodents. *Rev. Microbiol.*, 12:211-212.
- Downhower, J. F., and E. R. Hall. 1966. The pocket gopher in Kansas. *Misc. Publ. Univ. Kansas Mus. Nat. Hist.*, 44:1-32.

- Dozier, H. L. 1944. Muskrat trapping on the Montezuma National Wildlife Refuge, New York, 1943-1948. *J. Wildlife Mgmt.*, 14:403-412.
- Elias, D. J., J. K. Crier, and H. P. Tietjen. 1974. A technique for capturing prairie dogs. *Southwestern Nat.*, 18:473-474.
- Emlen, J. T., Jr. 1944. Device for holding live wild rats. *J. Wildlife Mgmt.*, 8:264-265.
- Erickson, A. B. 1947. A multiple rat and mouse holder. *J. Wildlife Mgmt.*, 11:351.
- Fichter, E., and G. Hytrek. 1948. Nebraska trapper's guide, a handbook on the taking of muskrat, mink, beaver, and coyote and the handling of pelts. Nebraska Game Forest State Parks Comm., 46 pp.
- Fisler, G. F. 1962. The use of water as bait for *Microtus californicus*. *J. Mamm.*, 43:555-556.
- Gamboa, G. J. 1975. Effects of light and air on the trapping response of the pocket gopher *Thomomys bottae* (Geomyidae). *Southwestern Nat.*, 19:444-446.
- Garst, W. 1962. Technique for capturing young prairie dogs. *J. Wildlife Mgmt.*, 26:108.
- Golley, F. B. 1961. Trap and bait preferences of cotton rats. *J. Mamm.*, 42:106-107.
- Grasse, J. E. 1949. Beaver trapping and transplanting. *Wyoming Wildlife*, 13:10-17, 34.
- Halvorson, C. H. 1972. Device and technique for handling red squirrels. *Spec. Sci. Rep. Wildlife, U.S. Fish Wildlife Serv.*, 159:ii+1-10.
- Harrison, J. L. 1960. A simple trap for squirrels. *J. Mamm.*, 41:142-143.
- Hart, E. B. 1973. A simple and effective live trap for pocket gophers. *Amer. Midland Nat.*, 89:200-202.
- Hay, K. G., and W. H. Rutherford. 1956. A guide to beaver trapping and pelting. *Tech Bull. Colorado Dept. Game and Fish Comm.*, 3:1-21.
- Horn, E. E., and H. S. Fitch. 1946. Trapping the California ground squirrel. *J. Mamm.*, 27:220-224.
- Howard, W. E. 1952. A live trap for pocket gophers. *J. Mamm.*, 33:61-65.
- Ingles, L. G. 1949. An improved live trap for pocket gophers. *Murrelet*, 30:55-56.
- Kisiel, D. S. 1972. Effects of two sizes of Sherman traps on success in trapping *Peromyscus* and *Reithrodontomys*. *Amer. Midland Nat.*, 87:551-553.
- Llewellyn, L. M. 1950. Reduction of mortality in live-trapping mice. *J. Wildlife Mgmt.*, 14:84-85.
- Melchior, H. R., and F. A. Iwen. 1965. Trapping, restraining, and marking Arctic ground squirrels for behavioral observations. *J. Wildlife Mgmt.*, 29:671-678.
- Momb, A. K. 1945. Live-trapping beaver in North Dakota. *North Dakota Outdoors*, 8:13.
- Moran, R. J. 1953. Trapping and marking squirrels on a refuge in southern Illinois. *Trans. Illinois Acad. Sci.*, 46:258-262.
- Norris, J. D. 1967. The control of coypus (*Myocastor coypus* Molina) by cage trapping. *J. Appl. Ecol.*, 4:167-189.
- O'Donnell, H. 1969. How to trap chipmunks. *Tennessee Conserv.*, 35:1-3.
- Okolovitch, A. K. 1957. Better ways of trapping muskrats. *Canadian Wildlife Serv.*, 2:24-39.
- Prychodko, W. 1952. A live trap for ground squirrels. *J. Mamm.*, 33:497.
- Richter, C. P., and J. T. Emlen, Jr. 1945. A modified rabbit box trap for use in catching live wild rats for laboratory and field studies. *Pub. Health Rep.*, 60:1303-1308.
- Sargeant, A. B. 1966. A live trap for pocket gophers. *J. Mamm.*, 47:729-731.
- Schmidt, R. G. 1943. Live-trapping and restocking beavers. *Missouri Conserv.*, 4:8-9.
- Scott, J. A. 1945. A box trap for cotton rats. *Science*, 102:567.
- Sharp, W. M. 1958. The art and technique of live-trapping gray squirrels. *Spec. Rep. Pennsylvania Coop. Wildlife Res. Unit, Pennsylvania State Univ.*, 3:1-12.
- Shemanchuk, J. A., and H. J. Bergen. 1968. The gen trap, a simple, humane trap for Richardson's ground squirrels, *Citellus richardsonii* (Sabine). *J. Mamm.*, 49:553-555.
- Sherman, H. B. 1941. A box trap for the capture of live *Geomys*. *J. Mamm.*, 22:182-184.
- _____. 1941. A pocket-gopher cage. *J. Mamm.*, 22:91-93.
- Smith, M. H. 1968. A comparison of different methods of capturing and estimating numbers of mice. *J. Mamm.*, 49:455-462.
- Snead, I. E. 1950. A family type live trap, handling cage, and associated techniques for muskrats. *J. Wildlife Mgmt.*, 14:67-79.

- Sollberger, D. E. 1940. Notes on the life history of the small eastern flying squirrel. *J. Mamm.*, 21:282-293.
- Sonenshine, D. E., D. C. Cerretani, G. Enlow, and B. L. Elisberg. 1973. Improved methods for capturing wild flying squirrels. *J. Wildlife Mgmt.*, 37:588-590.
- Spriggs, J. W. 1944. Steel-trapping the beaver. *Wyoming Wildlife*, 9:1-4.
- Stickle, L. F. 1948. Effect of bait in live trapping *Peromyscus*. *J. Wildlife Mgmt.*, 12:211-212.
- Sturton, R. A. 1944. Tropical mammal trapping. I: The water mouse *Rheomys*. *J. Mamm.*, 25:337-343.
- Takos, M. J. 1943. Trapping and banding muskrats. *J. Wildlife Mgmt.*, 7:400-407.
- Taylor, K. D., L. E. Hammond, and R. J. Quay. 1974. The reactions of common rats to four types of live-capture trap. *J. Appl. Ecol.*, 11:453-459.
- Trump, R. F., and G. O. Hendrickson. 1943. Methods for trapping and tagging woodchucks. *J. Wildlife Mgmt.*, 7:420-421.
- Whitelaw, C. J., and E. T. Pengelley. 1954. A method for handling live beaver. *J. Wildlife Mgmt.*, 18:533-534.
- Williams, R. M. 1951. The use of scent in live-trapping muskrats. *J. Wildlife Mgmt.*, 15:117-118.

Cetacea

- Bruemmer, F. 1965. The world's only whale trap. *Animals*, 6:550-553.
- Fagan, D. W. O. 1911. Where whales are caught in nets. *Wide World Mag.*, 26:423-432.
- Marsden, R. 1952. Electrical method of killing whales. *World Fishing*, 1:97-100.
- Newman, M. A., and P. L. McGeer. 1966. The capture and care of a killer whale, *Orcinus orca*, in British Columbia. *Zoologica*, 51:59-69.
- Taylor, C. K., and G. S. Saayman. 1973. Techniques for the capture and maintenance of dolphins in South Africa. *J. South African Wildlife Mgmt. Assoc.*, 3:89-94.

Carnivora

- Adams, W. V., G. E. Sanford, E. E. Roth, and L. L. Glasgow. 1964. Night time capture of striped skunks in Louisiana. *J. Wildlife Mgmt.*, 28:268-373.
- Alcorn, J. R. 1946. On the decoying of coyotes. *J. Mamm.*, 27:122-126.
- Andrews, R. D. 1963. Collecting skunks by night-lighting. *Illinois Wildlife*, 19:6.
- Anonymous. 1975. How to call coyotes. *Coop. Ext. Serv., Kansas State Univ., Manhattan*, 400:1-11.
- . 1975. How to trap a coyote. *Coop. Ext. Serv., Kansas State Univ., Manhattan*, 522:1-8.
- Atkeson, T. Z., and D. C. Hulse. 1953. Trapping versus night hunting for controlling raccoons and opossums within sanctuaries. *J. Wildlife Mgmt.*, 17:159-162.
- Bailey, T. N. 1971. Immobilization of bobcats, coyotes, and badgers with phenacyclidine hydrochloride. *J. Wildlife Mgmt.*, 35:847-849.
- Balser, D. S. 1965. Tranquilizer tabs for capturing wild carnivores. *J. Wildlife Mgmt.*, 29:438-442.
- Beck, R. 1971. Professional fox trapping tricks. *Pennsylvania Game News*, 42:20-24.
- Bhrend, D. F., and R. W. Sage, Jr. 1974. Use of M99 etorphine for immobilizing black bears. *J. Wildlife Mgmt.*, 38:568-569.
- Benson, S. B. 1948. Decoying coyotes and deer. *J. Mamm.*, 29:406-409.
- Black, H. C., O. H. Hewitt, and C. W. Severinghaus. 1959. Use of drugs in handling black bears. *New York Fish Game J.*, 6:179-203.
- Butterfield, R. T. 1954. Traps, live-trapping and marking of raccoons. *J. Mamm.*, 35:440-442.
- Casto, W., and C. C. Presnall. 1944. Comparison of coyote trapping methods. *J. Wildlife Mgmt.*, 8:65-70.
- Chapman, C. H. 1907. Taking of wolves by trap, poison, and dogs. *Michigan State Dept. Fish Game, Sault Ste. Marie*, 3 pp.
- Crabb, W. D. 1941. A technique for trapping and tagging spotted skunks. *J. Wildlife Mgmt.*, 5:371-374.

- Craighead, J. J., M. Hornocker, W. Woodgerd, and F. C. Craighead, Jr. 1960. Trapping, immobilizing and color-marking grizzly bear. *Trans. N. Amer. Wildlife Conf.*, 25:347-363.
- Erickson, A. W. 1957. Techniques for live-trapping and handling black bears. *Trans. N. Amer. Wildlife Conf.*, 22:520-543.
- Faylor, P. L. 1964. They hunt you. *Pennsylvania Game News*, 35(5):2-9.
- Fichter, E., and G. Hytrek. 1948. Nebraska trapper's guide, a handbook on the taking of muskrat, mink, beaver, and coyote and the handling of pelts. *Nebraska Game Forest State Parks Comm.*, 46 pp.
- Fitzgerald, J. P. 1973. Four immobilizing agents used on badgers under field conditions. *J. Wildlife Mgmt.*, 37:418-421.
- Flyger, V., M. W. Schein, A. W. Erickson, and T. Larsen. 1967. Capturing and handling polar bears—a progress report on polar bear ecological research. *Trans. N. Amer. Wildlife Nat. Resour. Conf.*, 32:107-119.
- Garlough, F. E. 1945. Capturing foxes. *Circ., U.S. Dept. Int. Fish Wildlife Serv.*, 8:1-11.
- . 1946. Capturing foxes. *Maryland Conserv.*, 23:1-5.
- Gerasimoff, Y. A. 1958. Technique for catching fox cubs. *Canadian Wildlife Serv.*, 3:203-207.
- Goza, E. J. 1938. Predator trapping. *New Mexico Mag.*, 16:27-37.
- Grawe, A. 1970. Mink trapping. *North Dakota Outdoors*, 33:20-21.
- Gubser, H. H. 1936. Suggestions on trapping coyotes and wolves in Alaska. *Wildlife Leaf. U.S. Dept. Agr. Biol. Surv.*, 62:1-6.
- Harding, A. R. 1934. Mink trapping. A. R. Harding Publ. Co., Columbus, Ohio, 171 pp.
- . 1973. Fox trapping. A. R. Harding Publ. Co., Columbus, Ohio, 192 pp.
- . 1973. Wolf and coyote trapping. A. R. Harding Publ. Co., Columbus, Ohio, 252 pp.
- Henderson, F. R. 1969. How to call coyotes. *Coop. Ext. Serv. Kansas State Univ.*, 400:1-8.
- Hornocker, M. G., and W. V. Wiles. 1972. Immobilizing pumas with phencyclidine hydrochloride. *International Zoo Yearbook*, 12:220-222.
- Hughes, W. 1950. Trapping bobcats in Kay County (Oklahoma). *Oklahoma Game Fish News*, 6:12-13.
- Hummon, O. J. 1945. A device for the restraint of mink during certain procedure. *J. Amer. Vet. Med. Assoc.*, 106:104-106.
- Jackson, L. W., and E. T. Davies. 1973. Live trapping for domestic dog control. *New York Fish Game J.*, 20:162-165.
- Kennamer, E. F. 1954. Fox trapping on the farm. *Circ. Alabama Poly. Inst.*, 373:1-8.
- Kleeper, D. 1960. Cat traps. *Texas Game and Fish Comm.*, 18:12-13, 30.
- Larsen, T. 1967. The trapping and study of polar bears, Spitsbergen, 1966. *Polar Rec.*, 13:589-593.
- . 1971. Capturing, handling, and marking polar bears in Svalbard. *J. Wildlife Mgmt.*, 35:27-36.
- Lentfer, J. W. 1968. A technique for immobilizing and marking polar bears. *J. Wildlife Mgmt.*, 32:217-321.
- Marsh, D. B. 1943. Trapping the Arctic fox (Eskimo method). *Beaver Winnipeg Outfit*, 273:14-15.
- Marsh, R. E., and W. R. Clark. 1968. An effective weasel trap. *J. Mamm.*, 49:157.
- Mast, J. F., and L. R. Morris. 1932. Coyote and wildcat trapping. L. R. Morris, Ontario, California, 78 pp.
- McCabe, R. A. 1949. Notes on live-trapping mink. *J. Mamm.*, 30:416-423.
- Miller, R. G., R. W. Ritcey, and R. Y. Edwards. 1955. Live-trapping marten in British Columbia. *Murrelet*, 36:1-8.
- Morris, R. F. 1945. On skunks and how to remove them. *Acadian Nat.*, 2:34-39.
- Morse, M. A., and D. S. Balsler. 1961. Fox calling as a hunting technique. *J. Wildlife Mgmt.*, 25:148-154.
- Murray, R. R. 1970. Live trapping of badgers, their removal, release and rehabilitation in a new area. *Mamm. Rev.*, 1:86-92.

- Nellis, C. H. 1968. Some methods for capturing coyotes alive. *J. Wildlife Mgmt.*, 32:402-405.
- Parker, L. C., and J. W. Spriggs. 1947. Trapping the marten. *Wyoming Wildlife*, 11:16-19.
- Pearson, A. M., R. M. Bradley, and R. T. McLaughlin. 1968. Evaluation of phencyclidine hydrochloride and other drugs for immobilizing grizzly and black bears. *J. Wildlife Mgmt.*, 32:532-537.
- Ritcey, R. W., and R. Y. Edwards. 1956. Live trapping mink in British Columbia. *J. Mamm.*, 37:114-116.
- Robinson, W. B. 1943. The "humane coyote-getter" vs. the steel trap in control of predatory animals. *J. Wildlife Mgmt.*, 7:179-189.
- Rust, C. C. 1968. Procedure for live trapping weasels. *J. Mamm.*, 49:318-319.
- Sheets, R. G. 1972. A trap for capturing black-footed ferrets. *Amer. Midland Nat.*, 88:461-462.
- Sheldon, W. G. 1949. A trapping and tagging technique for wild foxes. *J. Wildlife Mgmt.*, 13:309-311.
- Silver, J., and F. N. Jarvis. 1929. How to make a cat trap. *Leaf. U.S. Dept. Agr.*, 50:1-4.
- Stebler, A. M. 1944. Fox and coyote trapping simplified. *Michigan Dept. Conserv.*, 15 pp.
- Storm, G. L., and K. P. Dauphin. 1965. A wire ferret for use in studies of foxes and skunks. *J. Wildlife Mgmt.*, 29:625-626.
- Swanson, P. W. 1949. Live-trapping of marten. *Sylva*, 5(6):10-14.
- Troyer, W. A., R. J. Hensel, and K. E. Durley. 1962. Live-trapping and handling of brown bears. *J. Wildlife Mgmt.*, 26:330-331.
- Verts, B. J. 1960. A device for anesthetizing skunks. *J. Wildlife Mgmt.*, 24:335-336.
- de Vos, A., and S. E. Guenther. 1952. Preliminary live-trapping studies of marten. *J. Wildlife Mgmt.*, 16:207-214.
- Young, S. P. 1930. Hints on wolf and coyote trapping. *Leaf. Bur. Biol. Surv., U.S. Dept. Agr.*, 59:1-8.
- _____. 1931. Hints on bobcat trapping. *Leaf. Bur. Biol. Surv., U.S. Dept. Agr.*, 78:1-6.
- _____. 1932. Hints on mountain-lion trapping. *Leaf. Bur. Biol. Surv., U.S. Dept. Agr.*, 94:1-8.
- _____. 1941. The evolution of the steel wolf trap in North America. *Western Sportsman*, 6:10-11, 30-31.
- _____. 1941. Hints on coyote and wolf trapping. *Circ. U.S. Dept. Int., Fish Wildlife Serv.*, 2:1-8.
- _____. 1941. Hints on bobcat trapping. *Circ. U.S. Dept. Int., Fish Wildlife Serv.*, 1:1-6.
- _____. 1945. Mountain lion trapping. *Circ. U.S. Dept. Int., Fish Wildlife Serv.*, 6:1-7.
- Young, S. P., and E. A. Goldman. 1944. *The wolves of North America*. Amer. Wildlife Inst., Washington, D.C., xx+636 pp.

Pinnipedia

- Flyger, V., M. S. R. Smith, R. L. Damm, and R. S. Peterson. 1965. Effects of three immobilizing drugs on Weddell seals. *J. Mamm.*, 46:345-347.
- Jewell, P. A., and E. A. Smith. 1965. Immobilization of grey seals. *J. Wildlife Mgmt.*, 29:316-318.
- Johnson, A. L. 1955. Seal catching. *Nature in Wales*, 1:54-56.
- Ling, J. K., and D. G. Nicholls. 1963. Immobilization of elephant seals using succinylcholine chloride. *Nature*, 200:1021-1022.
- Ling, J. K., D. G. Nicholls, and C. D. B. Thomas. 1967. Immobilization of southern elephant seals with succinylcholine chloride. *J. Wildlife Mgmt.*, 31:468-479.
- Peterson, R. S. 1965. Drugs for handling fur seals. *J. Wildlife Mgmt.*, 29:688-693.
- Ronald, K., E. Johnson, M. Foster, and D. Vanderpol. 1970. The harp seal, *Pagophilus groenlandicus* (Erxleben, 1777). I. Methods of handling, molt, and diseases in captivity. *Canadian J. Zool.*, 48:1035-1040.
- Smith, T. G., B. Beck, and G. A. Sleno. 1973. Capture, handling, and branding of ringed seals. *J. Wildlife Mgmt.*, 37:579-583.
- Stirling, I. 1966. A technique for handling live seals. *J. Mamm.*, 47:543-544.

Sirenia

- Baughman, J. L. 1946. Some early notices on American manatees and the mode of their capture. *J. Mamm.*, 27:234-239.

Artiodactyla

- Anderson, R. D., and H. Stroebe. 1973. Trapping the arboretum deer herd. *Wisconsin Conserv.*, 39:20-21.
- Anonymous. 1946. Deer trapping and transplanting. *Wildlife North Carolina*, 10:10-11.
- . 1963. Trap deer by air! *Louisiana Conserv.*, 15:14-15.
- Ashcraft, G., and D. Reese. 1957. An improved device for capturing deer. *California Fish and Game Comm.*, 43:193-199.
- Barick, F. B. 1952. Deer trapping coordinated with weather. *Wildlife North Carolina*, 16:10-11, 20.
- Beale, D. M., and A. D. Smith. 1967. Immobilization of pronghorn antelopes with succinylcholine chloride. *J. Wildlife Mgmt.*, 31:840-842.
- Benson, S. B. 1948. Decoying coyotes and deer. *J. Mamm.*, 29:406-409.
- Bergerud, A. T., A. Butt, H. L. Russell, and H. Whalen. 1964. Immobilization of Newfoundland caribou and moose with succinylcholine chloride and Cap-Chur equipment. *J. Wildlife Mgmt.*, 28:49-53.
- Bromley, A. W., and C. W. Severinghaus. 1956. Live-trapping white-tail deer. *New York State Conserv.*, 11:4-5.
- Brownlow, O. P. 1926. Mountain sheep taken captive. *California Fish and Game Comm.*, 12:106-107.
- Burke, D. 1975. Capture and tagging of New Jersey whitetails. *New Jersey Outdoors*, 2:12-19.
- Clover, M. R. 1954. A portable deer-trap and catch-net. *California Fish and Game Comm.*, 40:367-373.
- . 1956. Single-gate deer trap. *California Fish and Game Comm.*, 42:199-201.
- Cooney, R. F. 1946. Trapping and transplanting mountain goats. *Proc. Western Assoc. State Game and Fish Comm.*, 26:106-109.
- Densham, W. D. 1974. A method of capture and translocation of wild herbivores using opaque plastic material and a helicopter. *Lammergeyer*, 21:1-25.
- DesMeules, P., B. R. Simard, and J. M. Brassard. 1971. A technique for the capture of caribou, *Rangifer tarandus*, in winter. *Canadian Field Nat.*, 85:221-229.
- Dixon, J. S., and E. L. Sumner, Jr. 1939. The deer problem, deer trapping, and deer removal at Zion Canyon, Utah. *Trans. N. Amer. Wildlife Conf.*, 4:231-235.
- Downing, R. L., and B. S. McGinnes. 1969. Capturing and marking white-tailed deer fawns. *J. Wildlife Mgmt.*, 33:711-714.
- Dunbar, R. 1947. Live trapping and transplanting. *Missouri Conserv.*, 8:5-7.
- Fisher, L. W. 1942. Live trapping Texas antelopes. *J. Wildlife Mgmt.*, 6:231-236.
- Fitzgerald, L. 1949. Trapping the Texas pronghorn. *Texas Game and Fish Comm.*, 8:14-17.
- Glazener, W. C. 1949. Operation deer trap. *Texas Game and Fish Comm.*, 7:6-7, 17, 26.
- Grasse, J. E. 1950. Trapping the moose. *Wyoming Wildlife*, 14:12-18, 35-37.
- Grieb, J. R., and M. G. Sheldon. 1956. Radio-controlled firing device for the cannon-net trap. *J. Wildlife Mgmt.*, 20:203-205.
- Hawkins, R. E., D. C. Autry, and W. D. Klimstra. 1967. Comparison of methods used to capture white-tailed deer. *J. Wildlife Mgmt.*, 31:460-464.
- Hawkins, R. E., W. D. Klimstra, L. W. Lamely, and D. C. Autry. 1970. A new remote capture method for free-ranging deer. *J. Mamm.*, 51:392-394.
- Hawkins, R. E., L. D. Martoglio, and G. G. Montgomery. 1968. Cannon-netting deer. *J. Wildlife Mgmt.*, 32:191-195.
- Helms, B. 1970. Trapping and transporting Wyoming's bighorn sheep. *Wyoming Wildlife*, 24:4-9.

- Hesselton, W. T. 1969. Deer trapping and tagging. *New York Conserv.*, 23:14-17.
- Houston, D. B. 1970. Immobilization of moose with M_{99} Etorphine. *J. Mamm.*, 51:396-399.
- Howard, V. W., Jr., and C. T. Engelking. 1974. Bait trails for trapping mule deer. *J. Wildlife Mgmt.*, 38:946-947.
- Hunter, G. N., T. R. Swen, and G. W. Jones. 1946. The trapping and transplanting of Rocky Mountain bighorn sheep in Colorado. *Trans. N. Amer. Wildlife Conf.*, 11:364-373.
- Jensen, D. 1961. Deer trapping and tagging. *Idaho Wildlife Rev.*, 14:8-9.
- Lacher, J. R., and D. D. Lacher. 1964. A mobile cannon net trap. *J. Wildlife Mgmt.*, 28:595-597.
- LeResche, R. E., and G. M. Lynch. 1973. A trap for free-ranging moose. *J. Wildlife Mgmt.*, 37:87-89.
- McBeath, D. Y. 1941. Whitetail traps and tags. *Michigan Conserv.*, 10(11):6-7, 11; 10(12):6-7.
- McCullough, D. R. 1975. Modification of the clover deer trap. *California Fish and Game Comm.*, 61:242-244.
- Mahaffey, J. 1949. Winter deer trapping. *Oklahoma Game and Fish News*, 5:8-10.
- Mattfield, G. F., J. E. Wiley III, and D. F. Behrend. 1972. Salt versus browse—seasonal baits for deer trapping. *J. Wildlife Mgmt.*, 36:996-998.
- Mikula, E. J. 1955. Efficient handling crate for whitetail deer. *J. Wildlife Mgmt.*, 19:501-502.
- Montgomery, G. G., and R. E. Hawkins. 1967. Diazepam bait for capture of white-tail deer. *J. Wildlife Mgmt.*, 31:464-468.
- Moser, C. A., and D. Domenick. 1968. Trapping the prairie goat. *Colorado Outdoors*, 17:28-29.
- Murry, R. E. 1965. Tranquilizing techniques for capturing deer. *Proc. Ann. Conf. Southeastern Assoc. Game and Fish Comm.*, 17:134-139.
- . 1965. Tranquilizing techniques for capturing deer. *Proc. Ann. Conf. Southeastern Assoc. Game and Fish Comm.*, 19:4-15.
- Neal, B. J. 1959. Techniques of trapping and tagging the collared peccary. *J. Wildlife Mgmt.*, 23:11-16.
- Putnam, E. F. 1950. Trapping bighorn sheep in Wyoming. *Wyoming Wildlife*, 14:12-15, 33-36.
- Ramsey, C. W. 1968. A drop-net deer trap. *J. Wildlife Mgmt.*, 32:187-190.
- Rideout, C. B. 1974. Comparison of techniques for capturing mountain goats. *J. Wildlife Mgmt.*, 38:573-575.
- Ritcey, R. W., and R. Y. Edwards. 1956. Trapping and tagging moose on winter range. *J. Wildlife Mgmt.*, 20:324-325.
- Ruff, F. J. 1938. Trapping deer on the Pisgah National Game Reserve, North Carolina. *J. Wildlife Mgmt.*, 2:151-161.
- . 1939. Trapping penned deer. *J. Wildlife Mgmt.*, 3:288-294.
- Siglin, R. J. 1965. Movements and capture techniques—a literature review of mule deer. *Spec. Rept. Colorado Dept. Game, Fish, and Parks, and Colorado Coop. Wildlife Res. Unit*, 4:iv+1-39.
- Spillett, J. J., and R. S. ZoBell. 1967. Innovations in trapping and handling pronghorn antelopes. *J. Wildlife Mgmt.*, 31:347-351.
- Taylor, W. P. 1947. Some new techniques—hoofed mammals. *Trans. N. Amer. Wildlife Conf.*, 12:293-324.
- Thomas, G. M., and W. J. Allred. 1943. Mass trapping of mule deer. *J. Wildlife Mgmt.*, 7:407-411.
- Webb, W. L. 1943. Trapping and marking white-tailed deer. *J. Wildlife Mgmt.*, 7:346-348.

PROCESSING

PRESERVATION AND PREPARATION TECHNIQUES

General

- Anonymous. n.d. Preserving zoological specimens. *Turttox Serv. Leaf.*, 2:1-4.
- . n.d. How to collect and prepare study skins of small mammals. *Turttox Serv. Leaf.*, 40:1-4.

- _____. 1911. Directions for preserving specimens of large mammals. *Mus. Vert. Zool., Univ. California, Berkeley*, 7 pp.
- Anthony, H. E. 1945. The capture and preservation of small mammals for study. *Sci. Guide, Amer. Mus. Nat. Hist.*, 61:1-54.
- Bailey, V. 1937. Deodorizing skunks. *J. Mamm.*, 18:481-482.
- Bather, F. A. 1929. Preservation of specimens and labels. *Museums J.*, 29:216.
- Berger, A. J. 1955. Suggestions regarding alcoholic specimens and skeletons of birds. *Auk*, 72:300-303.
- Bianco, S. L. 1899. The methods employed at the Naples Zoological Station for the preservation of marine animals. *Bull. U.S. Nat. Mus.*, 39:1-42.
- Booth, E. S. 1944. Temporary preservation of small mammals in the field. *J. Mamm.*, 25:354-358.
- Burt, W. H. 1948. The mammals of Michigan. *Univ. Michigan Press, Ann Arbor*, xv+288 pp.
- _____. 1957. Mammals of the Great Lakes region. *Univ. Michigan Press, Ann Arbor*, xv+246 pp.
- Clancy, P. A. 1956. Some temporary methods of preserving birds and mammals in the field—their uses and their failings. *Bull. South African Mus. Assoc.*, 6:206-209.
- Cockrum, E. L. 1962. Laboratory and field manual for introduction of mammalogy. *Ronald Press Co., New York*, v+116 pp.
- Crabb, E. D. 1923. A handbook on preserving museum specimens in the field. *Bull. Univ. Oklahoma*, 268:1-73.
- Davis, W. B. 1974. The mammals of Texas. *Bull. Texas Parks Wildlife Dept.*, 41:1-267.
- DeBlase, A. F., and R. E. Martin. 1974. A manual of mammalogy with keys to families of the World. *Wm. C. Brown, Dubuque, Iowa*, xv+329 pp.
- Dice, L. R. 1932. Preparation of scientific specimens of mammals in the field. *Circ. Mus. Zool., Univ. Michigan*, 1:1-10.
- Dickerman, R. W., and B. Villa-R. 1964. Dry ice: a "new" field technique. *J. Mamm.*, 45:141-142.
- Enders, R. K., and E. M. Paxton. 1946. Ablation of the scent glands of skunks. *J. Amer. Vet. Med. Assoc.*, 108:84-86.
- Farmer, T. W. 1951. A simple method of mounting gross biologic material in plastic boxes. *Science*, 114:236-237.
- Gilbert, B. M. 1973. Mammalian osteo-archaeology: North America. *Spec. Publ., Missouri Archaeol. Soc., Univ. Missouri, Columbia*, v+337 pp.
- Golley, F. B. 1966. South Carolina mammals. *Charleston Mus., Charleston, South Carolina*, xiv+181 pp.
- Gunderson, H. L., and J. R. Beer. 1953. The mammals of Minnesota. *Occas. Papers Minnesota Mus. Nat. Hist., Univ. Minnesota*, 6:xii+1-190.
- Hall, E. R. 1955. Handbook of mammals of Kansas. *Misc. Publ. Univ. Kansas Mus. Nat. Hist.*, 7:1-303.
- _____. 1962. Collecting and preparing study specimens of vertebrates. *Misc. Publ. Univ. Kansas Mus. Nat. Hist.*, 30:1-46.
- Hall, E. R., and K. R. Kelson. 1959. The mammals of North America. *Ronald Press, New York*, 1:xxx+1-546+79 pp.; 2:viii+547-1083+79 pp.
- Henshaw, H. W. 1915. Directions for preparing specimens of large mammals in the field. *Biol. Serv. Doc., U.S. Dept. Agr.*, 102:1-4.
- Hildebrand, M. 1968. Anatomical preparations. *Univ. California Press, Berkeley*, viii+100 pp.
- Hornaday, W. T. 1929. Taxidermy and zoological collecting. *Charles Scribner's Sons, New York*, 364 pp.
- Howell, A. H. 1921. Field suggestions. *J. Mamm.*, 2:117.
- _____. 1937. A simple method of saving small mammals in the field. *J. Mamm.*, 18:95.
- Ingles, L. G. 1947. Mammals of California. *Stanford Univ. Press, Stanford, California*, xix+258 pp.

- _____. 1954. Mammals of California and its coastal waters. Stanford Univ. Press, Stanford, California, xiii+396 pp.
- _____. 1965. Mammals of the Pacific states. Stanford Univ. Press, Stanford, California, xii+506 pp.
- Jewett, S. G. 1914. Directions for preparing scientific specimens of large and small mammals, birds, birds' stomachs for economic investigations, birds' nest and eggs, fish and reptiles. Bull. Oregon Fish and Game Comm., 1:1-20.
- Krieger, H. W. 1931. Care and preservation of museum specimens. Mus. News, 8(14):9-11.
- Marsh, D. B. 1941. How to skin a seal: in eight easy lessons. Beaver, Winnipeg, 272:50-51.
- Mayr, E., and R. Goodwin. 1956. Biological materials. Part 1. Preserved materials and museum collections. Nat. Acad. Sci. and Nat. Res. Coun. Publ., 399:viii+1-20.
- Merriam, C. H. 1889. Brief directions for the measurements of small mammals and the preparation of museum skins. Circ. U.S. Dept. Agr., Div. Econ. Ornith. Mamm., 11:1-4.
- Miller, G. S., Jr. 1932. Directions for preparing specimens of mammals. 6th ed., Bull. U.S. Nat. Mus., 39(N):1-20.
- Morton, J. E. 1950. Collecting and preserving zoological specimens. Tuatara, 3:104-114.
- Racey, K. 1938. Methods of preserving birds and mammals. Murrelet, 19:14-15.
- Scheid, V. E. 1939. Labeling museum specimens. Science, 90:69-70.
- Setzer, H. W. 1968. Directions for preserving mammals for museum study. Inform. Leaf., Smithsonian Inst., 380:1-19.
- Taylor, W. R. 1950. Field preservation and shipping of biological specimens. Turtox News, 28:42.
- Villa-R., B. 1966. Los murciélagos de México. Universidad Nacional Autónoma de México. Instituto de Biología, xvi+491 pp.
- Wells, M. M. 1932. The collection and preservation of animal forms. Gen. Biol. Supply House, Chicago, Illinois, 72 pp.

Skins—General

- Anderson, S. 1961. A new method preparing lagomorph skins. J. Mamm., 42:409-410.
- Anonymous. n.d. Directions for preparing skins of large mammals from the size of a wolf upwards. Amer. Mus. Nat. Hist., New York, 5 pp.
- _____. 1975. How to skin a coyote. Coop. Ext. Serv., Kansas State Univ., Manhattan, 67:1-11.
- Cantwell, G. G. 1930. Preparing mammal skins in the field. J. Mamm., 11:324-325.
- Clark, J. L. 1937. The preservation of mammal skins in the field. J. Mamm., 18:89-92.
- Dozier, H. L., and F. G. Ashbrook. 1950. A practical drying frame for nutria pelts. Louisiana Conserv., New Orleans, 3:16-18.
- Elton, C. 1938. A convenient method of mounting and storing skins of small mammals. J. Mamm., 19:244-245.
- Furlong, J. R. 1945. The marking of hides and skins. Bull. Imp. Inst., London, 43:8-13.
- _____. 1951. The drying of hides and skins. Colony Plant and Animal Products, 2:233-245.
- Hall, E. R. 1937. Deleterious effects of preservatives on study specimens of mammals. J. Mamm., 18:359-360.
- Harrison, J. L. 1960. Carding of small mammal skins. Bull. Australian Mamm. Soc., 1:12-14.
- Hoffmeister, D. F., and C. O. Mohr. 1957. Fieldbook of Illinois mammals. Nat. Hist. Surv. Div. State Illinois Dept. Reg. Education, 4:1-233.
- Justice, K. E., and W. J. Schaldach. 1958. Dacron as a filling for small mammal skins. J. Mamm., 39:158.
- Koestner, E. J. 1941. A modified technique in the preparation of mammal skins. J. Mamm., 22:315-317.
- Kritzing, C. C. 1945. Preservation of skins for museum purposes. Bull. South African Mus. Assoc., 3:351-352.
- Liddell, W. C. 1947. A new type fox pelt drying board. Amer. Natl. Fur Market J., 26:5-6, 17-18.
- Primrose, C. 1936. The preparation of specimens of bats. J. Darjeeling Nat. Hist. Soc., 10:146-161.

- . 1937. Preparing specimens of small mammals other than bats. *J. Darjeeling Nat. Hist. Soc.*, 12:17-26, 60-69.
- Schorger, A. W. 1945. Absorbent for use in the preparation of scientific skins. *Wilson Bull.*, 57:261.
- Smith, D. A. 1968. On the use of tapered tail wires for study skins of small mammals. *J. Mamm.*, 49:787-790.
- Svihla, A., and R. Dowell. 1939. Elton's method of preparing mammal skins. *J. Mamm.*, 20:111.
- Swenson, L. E. 1954. Less bulky mammal study skins. *J. Colorado-Wyoming Acad. Sci.*, 4:61-62.
- Walker, A. 1921. Some notes on the preparation of mammal skins. *Oologist*, 38:166-170.

Skins—Tanning and Taxidermy

- Anonymous. n.d. Field guide—directions for preparing trophies and specimens for mounting. Jonas Brothers, New York, 32 pp.
- Beck, H. T. 1941. The mounting of hairless and sparsely haired mammals. *Mus. News*, 19(12):7-8.
- Dill, H. R. 1968. Preparing small mammal skins for museum collection and classroom use. *Mus. Graphic*, 20:7, 12, 15.
- Dimpel, H. 1971. Tanning large skins for museum collections. *Commonwealth Scientific Industrial Tech. Mem. Res. Organ., Div. Wildlife Res.*, 7:1-25.
- Dixon, J. 1922. Directions for tanning and dressing of furs. *Circ.*, Univ. California, College Agr., 237:1-5.
- Elwood, J. W. n.d. Lessons in taxidermy. Northwestern School of Taxidermy, Omaha, Nebraska, 160 pp.
- Farnham, A. B. n.d. Home manufacture of furs and skins. A. R. Harding Publ. Co., Columbus, Ohio, 283 pp.
- . 1944. Home taxidermy for pleasure and profit. A. R. Harding Publ. Co., Columbus, Ohio, 246 pp.
- . 1950. Home tanning and leather making guide. A. R. Harding Publ. Co., Columbus, Ohio, 176 pp.
- Frey, R. W., I. D. Clarke, and F. P. Veitch. 1947. Home tanning leather and small fur skins. *Bull. U.S. Dept. Agr., Farmers'*, 1334:ii+1-24.
- Fries, G. E. 1973. Indian, pioneer, and home tanning methods. Buffalo Bull Press, Cedar Rapids, Iowa, 56 pp.
- Grantz, G. J. 1960. Amateur tanning. Grantz Taxidermy, Allentown, Pennsylvania, 36 pp.
- . 1969. Home book of taxidermy and tanning. Stackpole Books, Harrisburg, Pennsylvania, 160 pp.
- . 1973. Amateur taxidermy... animal mounting. Grantz Taxidermy, Allentown, Pennsylvania, 31 pp.
- Henderson, F. R. 1976. Tanning at home. Coop. Ext. Serv., Kansas State Univ., Manhattan, 565:1-23.
- Johnson, E. L. 1973. Small shop tanning. Wilderness Studios, (Location unknown), 18 pp.
- Moyer, J. W. 1953. Practical taxidermy, a working guide. Ronald Press, New York, vii+126 pp.
- O'Flaherty, F. W., T. Roddy, and R. M. Lollar (eds.). 1965. The chemistry and technology of leather. Reinhold, New York, 440 pp.
- Pray, L. L. 1943. Taxidermy. MacMillan, New York, viii+91 pp.
- Reed, C. K., and C. A. Reed. 1908. Guide to taxidermy. Worcester, Massachusetts, 304 pp.
- Rowley, J. 1898. The art of taxidermy. D. Appleton Co., New York, xi+244 pp.
- . 1925. Taxidermy and museum exhibition. D. Appleton Co., New York, xvi+331 pp.
- Thietje, W. C., and G. D. Schrimper. 1967. Laboratory techniques for mounting rabbits and other small mammals. *Mus. News*, 45(6):49-52.
- Thorstensen, T. C. 1969. Practical leather technology. Van Nostrand Reinhold, New York, 272 pp.
- Tinsley, R. 1977. Taxidermy guide. Stoeger Publ. Co., South Hackensack, New Jersey, 223 pp.

Skeletal Material—Cleaning by Means of Organisms

- Allen, E. R., and W. T. Neill. 1950. Cleaning mammal skeletons with meal worms. *J. Mamm.*, 31:464.
- Banta, B. H. 1961. The use of clothes moth larvae (Lepidoptera: Tineidae) to prepare osteological specimens, with an annotated bibliography on the use of other arthropods for vertebrate skeletal preparation. *Wasmann J. Biol.*, 19:265-267.
- Bolin, R. L. 1935. A method for preparing skeletons of small vertebrates. *Science*, 82:446.
- Borrell, A. E. 1938. Cleaning small collections of skulls and skeletons with dermestid beetles. *J. Mamm.*, 19:102-103.
- Case, L. D. 1959. Preparing mummified specimens for cleaning by dermestid beetles. *J. Mamm.*, 40:620.
- Coleman, E. J., and J. R. Zbijewska. 1968. Defleshing of skulls by beetles. *Turtox News*, 46:204-205.
- Crawford, R. L., and J. B. Atkinson. 1975. Fire ants used in skeletal preparations. *Florida Entomologist*, 58:8.
- Doetschman, W. H. 1947. An acarian infestation of dermestid larvae. *J. Mamm.*, 28:299.
- Galtsoff, P. S., F. E. Lutz, P. S. Welsh, and J. G. Needham (eds.). 1937. Culture methods for invertebrate animals. Comstock, Ithaca, New York, xxxii+590 pp.
- Gennaro, A. L., and T. J. Salb. 1972. An outdoor enclosure for dermestid defleshing operations. *Southwestern Nat.*, 17:95-97.
- Griswold, G. H. 1933. Fish meal as a food for clothes moths. *J. Economic Entomol.*, 26:720-722.
- Hall, E. R., and W. C. Russell. 1933. Dermestid beetles as an aid in cleaning bones. *J. Mamm.*, 14:372-374.
- Hardy, R. 1945. Dermestid beetles for cleaning skulls and skeletons in small quantities. *Turtox News*, 23:69-70.
- Hooper, E. T. 1950. Use of dermestid beetles instead of cooking pots. *J. Mamm.*, 31:100-102.
- _____. 1956. Selection of fats by dermestid beetles. *J. Mamm.*, 37:125-126.
- Illingworth, J. F. 1916. Notes on the life history of *Dermestes cadaverinus*. *Fab. Proc. Hawaiian Entomol. Soc.*, 3:255-257.
- Laurie, E. M. O., and J. E. Hill. 1951. Use of dermestid beetles for cleaning mammalian skeletons. *Museums J.*, 51:206-207.
- Peterson, A. 1964. Entomological techniques. Edwards Brothers, Ann Arbor, Michigan, v+435 pp.
- Roth, L. M., and E. R. Willis. 1950. The oviposition of *Dermestes ater* Degeer, with notes on bionomics under laboratory conditions. *Amer. Midland Nat.*, 44:427-447.
- Russell, W. C. 1947. Biology of the dermestid beetles with reference to skull cleaning. *J. Mamm.*, 28:284-287.
- Scheffer, V. B. 1940. A tip on cleaning mammal skulls with the aid of dermestid beetles. *Murrelet*, 21:10.
- Sealander, J. A., and R. G. Leonard. 1954. Use of crayfish for cleaning skeletal material. *J. Mamm.*, 35:428-429.
- Sommer, H. G., and S. Anderson. 1974. Cleaning skeletons with dermestid beetles—two refinements in the method. *Curator*, 17:290-298.
- Tiemeier, O. W. 1940. The dermestid method of cleaning skeletons. *Bull. Univ. Kansas Sci.*, 26:377-383.
- de la Torre, L. 1951. A method for cleaning skulls of specimens preserved in alcohol. *J. Mamm.*, 32:231-232.
- Vorhies, C. T. 1948. A chest for dermestid cleaning of skulls. *J. Mamm.*, 29:188-189.

Skeletal Material—Cleaning by Means of Chemicals

- Chapman, D. I., and N. Chapman. 1969. The use of sodium perborate tetrahydrate ($\text{NaBO}_3 \cdot 4 \text{H}_2\text{O}$) in the preparation of mammalian skeletons. *J. Zool.*, 159:522-523.

- Gross, J. E., and B. L. Gross. 1966. Jackrabbit humeri cleaned with clorox. *J. Wildlife Mgmt.*, 30:212.
- Hoffmeister, D. F., and M. R. Lee. 1963. Cleaning mammalian skulls with ammonium hydroxide. *J. Mamm.*, 44:283-284.
- Holden, F. H. 1914. A method of cleaning skulls and disarticulated skeletons. *Condor*, 16:239-241.
- _____. 1916. Cleaning skulls and skeletons: a supplementary note. *Condor*, 18:231.
- Howell, A. B. 1919. An easy method of cleaning skulls. *J. Mamm.*, 1:40-41.
- _____. 1920. A supplementary note on cleaning skulls. *J. Mamm.*, 1:145.
- Iverson, S. L., and R. W. Seabloom. 1963. A rapid method for cleaning small mammal skulls. *Proc. North Dakota Acad. Sci.*, 17:101-103.
- Jakway, G. E., W. Raskin, and T. Tyle. 1970. Sodium perborate process for preparation of skeletons. *Turtox News*, 48:65-67.
- de Klerk, W. A., L. Abrams, and L. S. Pretorius. 1964. Assembling avian and small animal skeletons by using a chemical aid. *J. South African Vet. Med. Assoc.*, 35:89-91.
- Luther, P. G. 1949. Enzymatic maceration of skeletons. *Proc. Linnean Soc. London*, 161:146-147.
- Ossian, C. R. 1970. Preparation of disarticulated skeletons using enzyme-based laundry "pre-soakers." *Copeia*, 1:199-200.
- Sandström, B. 1969. Enzymatic maceration of delicate bone and small skeletons. *Acta Anat.*, 74:487-488.
- Thompson, M. P., and R. J. Robel. 1968. Skeletal measurements and maceration techniques for aging bobwhite quail. *J. Wildlife Mgmt.*, 32:247-255.

Skeletal Material—Miscellaneous Preservation Procedures

- Anonymous. 1958. How to make skeletons. *Turtox Ser. Leaf.*, 9:1-4.
- Antle, H. R. 1940. Some points on bone preservation. *Soc. Amer. Arch. Notebook*, 1:118-125.
- Boettcher, F. L. J. 1912. Preservation of osseous and horny tissues. *Proc. U.S. Nat. Mus.*, 41:697-705.
- Brown, J. C., and G. I. Twigg. 1967. The rapid cleaning of bones in quantity. *J. Zool., London*, 153:566-567.
- Cantuel, P. 1949. Préparation rapide de pièces ostéologiques. *Mammalia*, 13:100-103.
- Didier, R. 1948. Préparation et conservation de los penien des mammifères. *Mammalia*, 12:42-44.
- Egerton, C. P. 1968. Method for the preparation and preservation of articulated skeletons. *Turtox News*, 46:156-157.
- Friley, C. E., Jr. 1947. Preparation and preservation of the baculum of mammals. *J. Mamm.*, 28:395-397.
- Green, H. L. H. H. 1934. A rapid method of preparing clean bone specimens from flesh or fixed material. *Anat. Rec.*, 61:1-3.
- Harris, R. H. 1959. Small vertebrate skeletons. *Museums J.*, 58:223-224.
- Hastings, S. 1971. New skull-cleaning method. *Bull. Georgia Acad. Sci.*, 29:102-103.
- Hopkins, M. L. 1957. A practical box for bone cleaning. *News Bull. Soc. Vert. Paleontol.*, 51:16-18.
- Howell, A. B. 1920. A supplementary note on cleaning skulls. *J. Mamm.*, 1:145.
- Lehmer, D. J. 1939. Notes on the field preservation of human bone. *Soc. Amer. Arch. Notebook*, 1:1-30.
- Leppart, G. 1966. Preparing mammal skulls for study. *North Dakota Outdoors*, 28:16-17.
- Lucas, F. A. 1891. Notes on the preparation of rough skeletons. *Bull. U.S. Nat. Mus.*, 39(C):1-11.
- _____. 1950. The preparation of rough skeletons. *Sci. Guide Amer. Mus. Nat. Hist.*, 59:1-20.
- Pycraft, W. P. 1925. On the preparation of large skeletons and flippers of cetaceans. *Museums J.*, 24:277-279.
- Roche, J. 1954. Préparation des pièces ostéologiques. *Mammalia*, 18:420-422.

- Schmitt, D. M. 1966. How to prepare skeletons. Ward's Curric. Aid., Ward's Nat. Sci. Est., Rochester, New York, 8 pp.
- Thompsett, D. H. 1958. The preparation of skeletons. *Museums J.*, 57:282-287.
- Woodbury, G. 1936. The use of polymerised vinylacetate and related compounds in the preservation and hardening of bone. *Amer. J. Phys. Anthro.*, 21:449-450.

Fluid Preserved Material

- Anonymous. n.d. Preparation, injection and care of embalmed specimens. *Turtox Serv. Leaf.*, 21:1-4.
- _____. 1958. The injection of laboratory specimens. *Turtox Serv. Leaf.*, 55:1-4.
- Congdon, J. D., L. J. Vitt, J. E. Platz, and A. C. Hulse. 1975. A portable rapid injector for preserving fish, amphibian and reptile specimens in the field. *Copeia*, 1975(1):183.
- Doolittle, A. A. 1925. Waterproofing labels for wet specimens. *Science*, 61:591-592.
- Gunn, W. A. 1924. Celluloid as a preservative. *Museums J.*, 24:154.
- Huheey, J. E. 1963. Concerning the use of paraformaldehyde as a field preservative. *Copeia*, 1963(1):192-193.
- Irish, E. L. 1930. Labels for specimens in liquid. *Museums J.*, 30:378.
- Jackson, M. K. 1971. A new "syringe" for injecting herptiles. *Herpetol. Rev.*, 2:75.
- Levi, H. W. 1966. The care of alcoholic collections of small invertebrates. *Syst. Zool.*, 15:183-188.
- Locke, S. B. 1930. Convenient containers for specimen material. *J. Mamm.*, 11:507.
- Loomis, E. C. 1960. An embalming technique for preserving small mammals. *J. Mamm.*, 41:389-392.
- Mertes, A. T. 1909. Preparation of absolute alcohol for histological and chemical purposes. *Amer. Midland Nat.*, 1:44-47.
- Miller, R. R. 1952. Treated formalin as a permanent preservative. *Turtox News*, 30:178-179.
- Pisani, G. R. 1973. A guide to the preservation technique: for amphibians and reptiles. *Circ. Herpetol. Soc. Study Amphibians Reptiles*, 1:1-22.
- Pope, P. H. 1928. Isopropyl alcohol as a preservative. *Science*, 68:487-489.
- Quay, W. B. 1974. Bird and mammal specimens in fluid—objectives and methods. *Curator*, 17:91-104.
- Sutton, D. A. 1962. A temporary preservative for small mammals. *J. Mamm.*, 43:264-265.
- Swenson, L. E. 1951. A field preservative for small mammals. *J. Colorado-Wyoming Acad. Sci.*, 4:78.
- Wood, H. E., II. 1927. A quick method of preserving cats for dissection. *Science*, 65:261.
- Woodburne, R. T., and C. A. Lawrence. 1952. An improved embalming fluid formula. *Anat. Rec.*, 114:507-514.

Miscellaneous Techniques

- Baker, R. J. 1970. Karyotypic trends in bats. Pp. 65-96, *in* *Biology of bats* (W. A. Wimsatt, ed.), Academic Press, New York, 1:xii+406.
- Beidleman, R. G. 1951. A partial bibliography of techniques in mammalogy. *Rocky Mt. Nat. Assoc.*, Estes Park, Colorado, i+76 pp.
- Funk, F., and K. Sherfey. 1975. Uses of Edolan U in museum preparation and conservation of zoological material. *Curator*, 18:68-76.
- Gray, P. 1964. *Handbook of basic microtechnique*. McGraw-Hill, New York, xii+302 pp.
- Hardy, J. I., and T. M. Plitt. 1940. An improved method of revealing the surface structure of fur fibers. *Circ. U.S. Dept. Int., Wildlife*, 7:1-10.
- Harris, R. J. C. (ed.). 1954. *The biological applications of freezing and drying*. Academic Press, New York, 415 pp.
- Haugen, A. O. 1939. Technique for preparing a hair collection for field or laboratory use. *J. Mamm.*, 20:260.
- _____. 1963. An improved technique for preserving deer uteri. *J. Wildlife Mgmt.*, 27:142-143.

- Hilton, D. F. J. 1970. A technique for collecting ectoparasites from small birds and mammals. *Canadian J. Zool.*, 48:1445-1446.
- Hower, R. O. 1964. Freeze-drying biological specimens. *Mus. News* 42(6):25-32.
- . 1967. The freeze-dry preservation of biological specimens. *Proc. U.S. Nat. Mus.*, 119:1-24.
- . 1970. Advances in freeze-dry preservation of biological specimens. *Curator*, 13:135-152.
- Humason, G. L. 1967. *Animal tissue techniques*. W. H. Freeman, San Francisco, 569 pp.
- Kincaid, T. 1948. To preserve the color pattern of the skin in frogs. *Turttox News*, 26:50-51.
- Koonz, C. H., and E. J. Strandine. 1945. A rapid and simplified method of revealing the surface pattern of hair. *Trans. Amer. Microscope Soc.*, 64:63-64.
- Kramer, F. M. 1938. Museum and microscope technique. Dry preservation of museum specimens: a review, with introduction of simplified technique. *J. Tech. Methods Bull. Intern. Assoc. Med. Mus.*, 18:42-50.
- Kuranny, A. I. 1969. A new method for preparation of the mammalian embryo chromosomes. *Cytol. Genet.*, 3:453-455.
- Lewis, J. W., and G. Rentomore. 1968. A method for collecting faecal samples from small mammals over a continuous period. *J. Zool.*, 156:537-540.
- Madsen, J. H. 1974. Derakane vinyl ester resins—an alternative to plaster-of-paris. *Curator*, 17:64-75.
- Mahoney, R. 1966. *Laboratory techniques in zoology*. Butterworths, Washington, D.C., vi+404 pp.
- Martin, A. C. 1949. Procedures in wildlife food studies. *Wildlife Leaf. U.S. Dept. Int., Fish Wildlife Serv.*, 325:1-10.
- Mathia, H. S. 1938. A rapid method of cross-sectioning mammalian hairs. *J. Wildlife Mgmt.*, 2:162-164.
- Mehl, R. 1970. Collection of insects and mites from birds and mammals. *Fauna*, 23:237-252.
- Meredith, R. 1969. A simple method for preparing meiotic chromosomes from mammalian testis. *Chromosoma*, 26:254-258.
- Meryman, H. T. 1960. The preparation of biological museum specimens by freeze-drying. *Curator*, 3:5-19.
- . 1961. The preparation of biological museum specimens by freeze-drying: II. Instrumentation. *Curator*, 4:153-174.
- Murie, O. J. 1954. *A field guide to animal tracks*. Houghton Mifflin, Boston, xxii+374 pp.
- Omura, H. 1963. An improved method for collection of ear plugs from baleen whales. *Norsk Hval Fangst-Tidende*, 52:279-282.
- Omura, T. 1970. A method of chromosome preparation for fresh bone marrow cells of the mouse. *Biol. J. Okayama Univ.*, 16:29-34.
- Pattie, D. L. 1969. Method for preparation and preservation of mammalian lungs. *Turttox News*, 47:30-31.
- Pilarski, W., S. Serwatka, K. Swieczynski, and M. Wegrzyn. 1967. New attempts at fixing anatomical material of large mammals. *Acta Theriol.*, 12:453-458.
- Rhodenburg, G. L. 1930. The preservation of specimens in color. *Arch. Path.*, 9:874-875.
- Russell, E. L. 1973. Improved methods for staining bones of small fetuses and vertebrates in Alizarin Red S. *BioScience*, 23:366-367.
- Schrimper, G. D. 1973. Hollow casting of fossil skulls in epoxy plastic. *Curator*, 16:286-305.
- Schultz, A. H. 1924. Preparation and preservation of anatomical and embryological material in the field. *J. Mamm.*, 4:16-24.
- Sills, F., and S. Couzyn. 1958. Dry preservation of biologic specimens by plastic infiltration. *Curator*, 1:72-75.
- . 1958. The embedding of cleared, biologic specimens. *Curator*, 1:87-91.
- Taylor, W. R. 1967. An enzyme method of clearing and staining small vertebrates. *Proc. U.S. Nat. Mus.*, 122(3596):1-17.
- . 1967. Outline of a method of clearing tissues with pancreatic enzymes and staining bones of small vertebrates. *Turttox News*, 45:308-309.

- Tompsett, D. H. 1956. Anatomical techniques. E. and S. Livingstone, Ltd., London, xvi+240 pp.
- Waller, R. A., and W. N. Eschmeyer. 1965. A method for preserving color in biological specimens. *BioScience*, 15:361.
- Waters, B. T., and D. E. Savage. 1971. Making duplicates of small vertebrate fossils for teaching and for research collections. *Curator*, 14:123-132.
- Watson, G. E., and A. B. Amerson, Jr. 1967. Instructions for collecting bird parasites. Inform. Leaf. Smithsonian Inst., 477:1-12.
- Weesner, F. M. 1960. General zoological microtechniques. Williams and Wilkins Co., Baltimore, Maryland, 230 pp.
- White, D. A., and E. J. Peters. 1969. A method of preserving color in aquatic vertebrates and invertebrates. *Turtlex News*, 47:296-297.
- White, L. D. 1962. Concrete molds of rodent burrows. *J. Mamm.*, 43:265.
- Williamson, C. S. 1934. A simple method of sectioning mammalian hairs for identification purposes. *J. Mamm.*, 15:251.
- Williamson, V. H. H. 1951. Determination of hairs by impressions. *J. Mamm.*, 32:80-84.
- Yeager, L. E., and J. P. Woloch. 1962. Techniques and cost of browse collection for nutritional studies. *J. Wildlife Mgmt.*, 26:321-323.

DOCUMENTATION

Techniques and Considerations

- Adams, W. H. 1959. A plastic hind-foot measuring device. *J. Wildlife Mgmt.*, 23:115-116.
- Allen, D. L. 1941. A method for recording place locations in the field. *J. Mamm.*, 22:454-456.
- American Society of Mammalogists. 1961. Standardized methods for measuring and recording data on the smaller cetaceans. *J. Mamm.*, 42:471-476.
- Anderson, S. 1965. Sources of error in locality data. *Syst. Zool.*, 14:344-346.
- _____. 1968. A new craniometer and suggestions for craniometry. *J. Mamm.*, 49:221-228.
- _____. 1972. Two semiautomatic systems for linear measurements. *Curator*, 15:220.
- Arata, A. A. 1968. Discrepancy between "dry" and "fresh" forearm measurements in bats. *J. Mamm.*, 49:155-156.
- Axtell, R. W. 1965. More on locality data and its presentation. *Syst. Zool.*, 14:64-66.
- Banks, R. C. 1965. Weight change in frozen specimens. *J. Mamm.*, 46:110.
- Bartleet, L. M. 1954. A technique for recording rapid consecutive field observations. *Auk*, 71:464.
- Bellrose, F. C. 1943. Determination of sex and age in muskrats. *J. Wildlife Mgmt.*, 7:77-81.
- Blaker, A. A. 1965. Photography for scientific publications: a handbook. W. H. Freeman, San Francisco, xii+158 pp.
- Boardman, E. T. 1948. Simplified records for small science and history museums. *Mus. News*, 25(17):6-8.
- Bookhout, T. A., and E. M. Harger. 1964. An accurate inexpensive scale for laboratory use. *J. Mamm.*, 45:313.
- de Borhegyi, S. F. 1965. Field manual or cataloging guide. *Mus. News*, 43(5):38-40.
- de Borhegyi, S. F., and A. Marriot. 1958. Proposals for a standardized museum accessioning and classification system. *Curator*, 1:77-86.
- Brohn, A., and C. E. Shanks. 1948. Incisor width as an age criterion in muskrats. *J. Wildlife Mgmt.*, 12:437-439.
- Calaprice, J. R., and J. S. Ford. 1969. Digital calipers—an inexpensive electronic measuring and recording device. *Tech. Rep. Fisheries Res. Board Canada*, 141:1-6.
- Committee on Marine Mammals (1966-1967). 1967. Standard measurement of seals. *J. Mamm.*, 48:459-462.
- Crissey, W. F. 1958. The use of a dictating machine to record aerial observations. *J. Wildlife Mgmt.*, 17:539-540.
- Doutt, J. 1940. Weighing large mammals in the field. *J. Mamm.*, 21:63-65.

- Downing, S. C. 1945. Color changes in mammal skins during preparation. *J. Mamm.*, 26:128-132.
- Dozier, H. L. 1942. Identification of sex in live muskrats. *J. Wildlife Mgmt.*, 6:282-293.
- Dudley, D. H., and I. B. Wilkinson. 1968. Museum registration methods. Amer. Assoc. Mus. and Smithsonian Inst., Washington, D.C., viii+294 pp.
- Durham, F. E. 1941. A reflectometer for measuring colors of animals. *J. Mamm.*, 22:199-201.
- Emery, R. C. 1964. A container for weighing mice. *J. Anim. Tech. Assoc.*, 15:43.
- Friley, C. E., Jr. 1949. Use of the baculum in age determination of Michigan beaver. *J. Mamm.*, 30:261-267.
- Graham, J. M., II. 1964. A method of museum registration. *Mus. News*, 42(8):25-32.
- Greer, J. K. 1970. Museums and information. *Proc. Ann. Conf. Mountain-Plains Mus.*, 2:49-58.
- Guthe, C. E. 1970. Documenting collections: museum registration and records. *Tech. Leaf. Amer. Assoc. State Local Hist.*, 11:1-8.
- Hamilton, W. J., Jr. 1938. The desirability of recording full data on specimen labels. *J. Mamm.*, 19:102.
- Hunter, W. S., S. M. Garn, and R. L. Miller. 1970. Computer-operated digital caliper with visual display and card-punch capacity. *J. Dent. Res.*, 49:176.
- Hurst, R. M. 1970. Putting a collection on film. *Curator*, 13:199.
- Hutchinson, V. M. 1964. Distance and direction in locality data. *Syst. Zool.*, 13:156-157.
- Jewell, P. A., and P. J. Fullagar. 1966. Body measurements of small mammals: sources of error and anatomical changes. *J. Zool.*, 150:501-509.
- Joubert, E. 1972. A simplified punch-card system for recording biological information in the field. *Madoqua*, 1:69-71.
- Kinsey, C. 1962. A caliper modification for measuring skulls and bones. *J. Mamm.*, 43:538-539.
- Krahl, V. E. 1944. An apparatus for measuring the torsion angle in long bones. *Science*, 99:498.
- Larimore, R. W. 1957. A marginal-dot system of indexing reference cards. *J. Wildlife Mgmt.*, 21:92-94.
- Laws, R. M. 1953. New method of age determination in mammals with special reference to the elephant seal. *Sci. Rep. Falkland Island Dependencies*, London, 2:1-11.
- LeMare, G. W. R. 1935. Weights of big game. *Field*, 166:601.
- McEwan, E. H. 1967. A pneumatic scale for weighing wild ungulates. *J. Wildlife Mgmt.*, 31:593-595.
- Miller, R. S. 1958. The Munsell system of color notation. *J. Mamm.*, 39:278-286.
- Mittwoch, U. 1971. Sex determination in birds and mammals. *Nature*, 231:432-434.
- Morrison-Scott, T. C. S. 1939. Measuring mammals' tails. *Ann. Mag. Nat. Hist.*, 3:216-219.
- Murie, O. J. 1928. Weighing game animals. *J. Mamm.*, 9:74-75.
- Norris, K. S. (ed.). 1961. Standardized methods for measuring and recording data on the smaller cetaceans. *J. Mamm.*, 42:471-476.
- North, F. J. 1949. Notes for students: labels, their function, preparation, and use. *Museums J.*, 49:26-30, 55-62, 80-86.
- Oddon, Y. 1970. The documentation of collections in general museums. *ICOM [International Council of Museums] News*, 23:55-56.
- Osborn, D. J. 1955. Techniques of sexing beaver. *J. Mamm.*, 36:141-142.
- Paine, C. C. 1970. Recording forms. *Museums J.*, 70:28.
- Pan, H. P., J. W. Coslick, D. T. Harke, and D. G. Decker. 1965. A simple support for convenient weighing. *J. Wildlife Mgmt.*, 29:890-891.
- Patrick, N. D. 1961. Estimating total weights of black bears from carcass weights. *J. Wildlife Mgmt.*, 25:93.
- Petrides, G. A. 1944. Determining the age of deer. *South Dakota Conserv. Dig.*, 11(10):10.
- Proger, L. W. 1932. A simple method of labelling museum jars. *Path. Bact.*, 35:977-979.
- Quimby, D. C., and J. E. Gaab. 1957. Mandibular dentition as an age indicator in Rocky Mountain elk. *J. Wildlife Mgmt.*, 21:435-451.

- Richards, C. M. 1948. Formulae for museum measurements. *Mus. News*, 25(19):7-8.
- Ridgway, R. 1912. Color standards and nomenclature. A. Hoen and Company, Baltimore, Maryland, iv+43+53 pp.
- Riemer, W. J. 1954. Formulation of locality data. *Syst. Zool.*, 3:138-140.
- Robinette, W. L., and W. Jensen. 1950. Simplified method for determining the age of mule deer. *Utah State Dept. Fish and Game Inform.*, 1:5.
- Roonwal, M. L., and V. C. Agrawal. 1962. Measurement of rodents (mammalia), especially their skull, for taxonomic purposes. *Rec. Indian Mus.*, 60:81-94.
- Sather, J. H. 1954. The dentition method of aging muskrats. *Chicago Acad. Sci. Nat. Hist. Misc.*, 130:1-3.
- Scheffer, V. B. 1950. Growth layers on the teeth of Pinnipedia as an indication of age. *Science*, 112:309-311.
- Schofield, R. D. 1955. Analysis of muskrat age determination methods and their application in Michigan. *J. Wildlife Mgmt.*, 19:463-466.
- Setzer, H. W. 1966. Comments on the standardization of field data. Pp. 9-10, *in* Proceedings of the colloquium on African rodents (no ed.), Musee Royal de L'Afrique Centrale, 8(144):xiii+1-192.
- Severinghaus, C. W. 1949. Development and wear as criteria of age in white-tailed deer. *J. Wildlife Mgmt.*, 13:195-216.
- . 1950. Aging a deer. *New York State Conserv.*, 5(2):8-10.
- Shanks, C. E. 1948. The pelt primeness method of aging muskrats. *Amer. Midland Nat.*, 39:179-187.
- Shultz, L. P. 1938. Can the weight of whales or large fish be calculated? *J. Mamm.*, 19:480-487.
- Smith, G. G. 1955. An instrument for obtaining measurements of small mammals. *Bull. South African Assoc.*, 6:104.
- Smith, N. S., and H. P. Ledger. 1965. A portable tripod and weighing assembly for large animals. *J. Wildlife Mgmt.*, 29:208-210.
- Smithe, F. B. 1974. Naturalist's color guide supplement. *Amer. Mus. Nat. Hist.*, New York, xiii+229 pp.
- . 1975. Naturalist's color guide. *Amer. Mus. Nat. Hist.*, New York. 14 pp.
- Steward, C. C. 1965. More on latitude and longitude. *Syst. Zool.*, 14:343-344.
- Sumner, F. B. 1927. Linear and colorimetric measurements of small mammals. *J. Mamm.*, 8:177-206.
- Sutton, F. J., and C. C. Black. 1975. Data in systematics collections. *Mus. Data Bank Res. Rep.*, 6:1-6.
- Svihla, A. 1933. An accurate method for measuring newborn mice. *Science*, 77:331.
- Swanson, C. V. 1951. Technique for age determination of elk (*Cervus canadensis*). *Murrelet*, 32:19-22.
- Talbot, L. M., and M. H. Talbot. 1962. A hoisting apparatus for weighing and loading large animals in the field. *J. Wildlife Mgmt.*, 26:217-218.
- de la Torre, L. 1971. Asymmetry in dental measurements produced by the monocular use of stereo microscope systems. *Mammalia*, 35:341-343.
- Trotter, J. R. 1959. An aid to field observation. *Anim. Behav.*, 7:107.
- Usher, P. J., and M. Church. 1969. Field tables for the calculation of ringed seal weights from length and girth measurements. *North Sci. Res. Group. Dept. Indian Affairs and North. Devel., Ottawa Tech.*, 3:1-9.
- Webb, W. L. 1950. A method for filing field observations. *J. Wildlife Mgmt.*, 14:83.
- Wheeler, G. C. 1965. Locality by legal description. *Syst. Zool.*, 14:66-68.
- Young, F. W. 1936. The identification of the sex of beavers. *Bull. Agric. Exper. Sta., Michigan State College*, 279:1-8.
- Zenkovic, B. A. 1937. Weighing of whales. *Comptes Rendus Acad. Sci.*, 16:177-182.

Information Retrieval

- Adams, L. 1955. A punch-card bibliographic file for vertebrate ecologists. *J. Wildlife Mgmt.*, 19:472-476.
- Anderson, S. (ed.). 1976. Techniques and equipment to implement the National Network for Information Retrieval in Mammalogy. Proc. Seminar N.J.R.M., Washington, D.C., 59 pp.
- Anonymous. 1967. Information retrieval for museums. Reports of a colloquium held at the City Museum, Sheffield, in April 1967. *Museums J.*, 67:88-120.
- _____. 1974. The SELGEM system for information management: an introduction. Printed for the Smithsonian Institution by the Government Printing Office (MB-GPO-11), Washington, D.C. 6 pp.
- _____. 1975. ASM plans NIRM: national network for information retrieval in mammalogy. *Assoc. Syst. Coll.*, 3(4):6-7.
- Bryan, J. H. D. 1966. A multi-purpose information retrieval system based on edge-notched cards. *BioScience*, 16:402-407.
- Cameron, D. F. 1970/71. Museums, systems, and computers. *Museum*, 23:14-17.
- Casey, R. S., and J. W. Perry (eds.). 1951. Punched cards: their applications to science and industry. Reinhold Publ. Corp., New York, viii+506 pp.
- Chenhall, R. G. 1968. The analysis of museum systems. Computers and their potential applications in museums, a conference sponsored by the Metropolitan Museum of Art, April 15, 16, 17, xx+59-79.
- _____. 1975. Museum information networks. *Mus. Data Bank Res. Rep.*, 5:1-19.
- _____. 1975. Museum cataloging in the computer age. *Amer. Assoc. State Local Hist.*, Nashville, Tennessee, viii+261 pp.
- Council of Biological Sciences Information. 1970. Information handling in the life sciences. *Div. Biol. Agr., Nat. Res. Council*, 79 pp.
- Creighton, R. A., and J. J. Crockett. 1971. SELGEM: a system for collection management. *Smithsonian Inst. Inform. Syst. Innov.*, 2(3):ii+1-24.
- _____. 1972. SELGEM retrieval: a general description. *Proc. Comp. Sci., Smithsonian Inst.*, 1:1.
- Creighton, R. A., and P. Packard. 1974. Computer assisted information management: getting oriented. *Proc. Comp. Sci., Smithsonian Inst.*, 1(2):1-19.
- _____. 1975. Computer assisted information management: retrieval. *Proc. Comp. Sci., Smithsonian Inst.*, 1(3):v+1-51.
- Creighton, R. A., and E. Robinson. 1975. Computer information management: input and file maintenance. *Proc. Comp. Sci., Smithsonian Inst.*, 1(4):vi+1-36.
- Creighton, R. A., P. Packard, and H. Linn. 1972. SELGEM retrieval: a general description. *Proc. Comp. Sci., Smithsonian Inst.*, 1(1):vi+1-38.
- _____. 1973. SELGEM retrieval: a general description. *Cuadernos de Historia Economica de Cataluña*, 9:173-214.
- Creighton, R. A., P. Packard, and J. F. Crockett. 1973. File building: a manual for data banking via SELGEM. *Proc. Comp. Sci., Smithsonian Inst.*, 1(2):iv+1-102.
- Dodd, G. G. 1968. Elements of data management systems. *Comp. Surv.*, 1:117-133.
- Elisseff, V. 1970/71. Museums and computers. *Museum*, 23:4-6.
- Ellin, E. 1958. An international survey of museum computer activity. *Computers and the Humanities*, 3:65-86.
- _____. 1969. Museums and the computer: an appraisal of new potentials. *Computers and the Humanities*, 4:25-30.
- _____. 1970/71. Computer horizons in the museum world. *Museum*, 23:8-10.
- _____. 1970/71. Considerations in the formation of museum data banks in the United States of America. *Museum*, 23:20-21.
- Erwin, L. J. M. 1976. Application of a computerized general purpose information management system (SELGEM) to a natural history research data bank (Coleoptera: Carabidae). *Coleopt. Bull.*, 30:1-32.

- Foote, R. H., and J. Zidar. 1975. A preliminary annotated bibliography of information handling activities in biology. *J. Washington Acad. Sci.*, 65:19-32.
- Fowler, J. A. 1965. An information retrieval system for biological researchers. *BioScience*, 15:413-417.
- Freundlich, A. L. 1966. Museum registration by computer. *Mus. News*, 44(6):18-20.
- Gautier, G. T. 1973. A report on the use of SELGEM at the National Museum of Natural History. *Assoc. Syst. Coll. Newsletter*, 2(1):12-17.
- Greenberger, M., J. Aronofsky, J. L. McKenny, and W. F. Massey. 1973. Computer and Information Networks. *Science*, 182:29-35.
- Hall, A. V. 1970. A computer-based system for forming identification keys. *Taxon*, 19:12-18.
- _____. 1972. Computer-based data banking for taxonomic collections. *Taxon*, 21:13-25.
- _____. 1973. The use of a computer-based system of aids for classification. *Contrib. Bolus Herb., Univ. Cape Town*, 6:1-110.
- Heller, J. 1969. Permuted indexes and catalog cards constructed from the Museum Computer Network's data bank. *ICRH Newsletter*, 4:3-6.
- _____. 1974. On logical data organization, card catalogs, and the GRIPHOS management information system. *Mus. Data Bank Res. Rep.*, 3:1-21.
- Henry, W. R. 1969. Hierarchical structure for data management. *IBM Systems J.*, 8:2-15.
- Hislop, R. 1967. Information retrieval and computer printed indexes. *Museums J.*, 67:91-97.
- International Business Machines Corporation, Data Processing Division. 1970. Building a collection data bank at Museum Computer Network. IBM Corp., White Plains, New York, GK20-0370, 8 pp.
- _____. 1971. An introduction to information retrieval. IBM Corp., White Plains, New York, GE20-0348, 36 pp.
- Juskevics, J. A. 1970. On computerizing collections. *Bull. Geol. Soc. Amer.*, 81:1597-1599.
- Krauss, H. M. 1973. The use of generalized information processing systems in the biological sciences. *Taxon*, 22:3-18.
- Ledley, R. S. 1965. Use of computers in biology and medicine. McGraw-Hill, New York, 965 pp.
- Lewis, G. D. 1965. Obtaining information from museum collections and thoughts on a national index. *Museums J.*, 65:12-22.
- _____. 1967. Introduction to information retrieval for museums. *Museums J.*, 67:88-91.
- Lytle, D. L. 1967. Where to learn about new data processing systems. *Mus. News*, 46(3):32-35.
- MacDonald, J. R. 1966. Electronic data processing methods in vertebrate paleontological catalogues. *News Bull. Vert. Paleontol. Suppl.*, 77:44-45.
- Manning, O. B. 1969. A computer-generated catalog of types: a by-product of data processing in museums. *Curator*, 12:134-138.
- Mello, J. F. 1973. Computer revolution in systematics. *Taxon*, 23:21-22.
- Metropolitan Museum of Art. 1968. Computers and their applications in museums. Arno Press, New York, xx+402 pp.
- Morse, L. E. 1968. Construction of identification keys by computer. *Amer. J. Bot.*, 55:737.
- _____. 1974. Computer programs for specimen identification, key construction and description printing using taxonomic data matrices. *Publ. Mus., Michigan State Univ., Biol. Ser.*, 5:1-128.
- Morse, L. E., J. E. Peters, and P. B. Hamel. 1971. A general data format for summarizing information. *BioScience*, 21:174-181.
- Pankhurst, R. J. 1972. A method of data capture. *Taxon*, 21:549-558.
- Perring, F. 1967. The requirements of the research worker in biology. *Museums J.*, 67:108-111.
- Peters, J. A. 1965. The computer and the collection-at-large. *Curator*, 8:263.
- Peters, J. A., and B. B. Collette. 1968. The role of time-share computing in museum research. *Curator*, 11:65-75.
- Raben, J. 1970. Data collection and dissemination in museums: a workshop report. *Comp. Humanities*, 5:62-63.
- Rensberger, J. M., and W. B. N. Berry. 1967. An automated system for retrieval of museum data. *Curator*, 10:297-317.

- Schiffer, H. F. 1970. Museums and computers: GIPSY's ethnological data base. *Proc 17th Ann. Conf. Mountain-Plains Mus.*, 2:59-68.
- Scholtz, S. 1974. Data structure and computerized museum catalogs. *Mus. Data Bank Res. Rep.*, 2:1-8.
- Squires, D. F. 1966. Data processing and museum collections: a problem for the present. *Curator*, 9:216-277.
- . 1968. Collections and the computer. *BioScience*, 18:973-974.
- . 1970. An information storage and retrieval system for biological and geological data. *Curator*, 13:43-62.
- Vance, D. 1967. New ways of keeping and finding information. *Mus. News*, 46(3):29-32.
- . 1969. A data bank of museum holdings. *ICRH Newsletter*, 4:3-7.
- . 1970. Museum data banks. *Inform. Storage Retrieval*, 5:203-211.
- . 1974. What are data? *Mus. Data Bank Res. Rep.*, 1:1-10.
- Vance, D., and J. Heller. 1971. Structure and content of a museum data bank. *Comp. Humanities*, 6:67-84.
- Vance, D., IBM, and C. Corson. 1973. *Computers in the museum*. IBM Corp., White Plains, New York, ii+69 pp.
- Van Gelder, R. G., and S. Anderson. 1967. An information and retrieval system for collections of mammals. *Curator*, 10:32-42.

STORAGE

GENERAL

- Anderson, S. 1973. It costs more to store a whale than a mouse: libraries, collections, and the cost of knowledge. *Curator*, 16:30-44.
- Anonymous. 1962. Solving storage problems. *Mus. News*, 41(4):24-29.
- . 1976. Compactors: one solution to the problem of collection growth. *Assoc. Syst. Coll. Newsletter*, 4:20-22.
- Bartlett, J. 1963. Storage and study collections. *Museums J.*, 63:62-63.
- de Borhegyi, S. F. 1963. Space problems and solutions. *Mus. News*, 42(3):18-22.
- Coleman, L. V. 1950. *Museum buildings—a planning study*. Amer. Assoc. Mus., Washington, D.C., vii+298 pp.
- Dunn, W. S., Jr. 1970. Storing your collections: problems and solutions. *Hist. News*, 25:123-130.
- . 1970. Storing your collections. *Tech. Leaf. Amer. Assoc. State Local Hist.*, Nashville, 5:1-8.
- Engstrom, K. 1975. Storage of natural history collections. *ICOM [International Council of Museums] News*, 28:28-29.
- Fourie, A. L. 1974. Storage and packing: a review. *Bull. South African Mus. Assoc.*, 11:110-117.
- Hughes, O. 1972. Storage on a shoestring. *Mus. News*, 51(3):37-38.
- Oliver, L. L. 1946. Storage Cases. *Mus. News*, 24(12):7-8.
- Pinckheard, J., and E. Pyddoke. 1961. A system of standard storage. *Museums J.*, 60:281-284.
- Sahni, B. 1945. Permanent labels for museum specimens in damp tropical climates. *J. Mus. Assoc. India*, 1:107-108.
- Sawyer, J. L. 1974. Nalgene poly-paper as a label material. *Progressive Fish-Culturist*, 36:238.
- Smith, B. J. 1962. Solving storage problems. *Mus. News*, 41(4):24-29.
- Spencer, L. J. 1931. Paper for museum labels. *Museums J.*, 31:391-395.
- Stansfield, G. 1971. Physical storage of museum reserve collections. *Mus. Assoc. Inform. Sheet*, London, 3 pp.
- Van Gelder, R. G. 1964. "Another man's poison." *Curator*, 7:55-71.
- Waddell, G. 1971. Museum storage. *Mus. News*, 49(5):14-20.
- Wilson, J. H. 1949. Labels which last. *Museums J.*, 49:114-116.

SKINS

- Ashbrook, F. G. 1954. Furs glamorous and practical. D. Van Nostrand, New York, xiv+88 pp.
- Billingham, R. E., and P. B. Medawear. 1952. The freezing and drying and storage of mammalian skin. *J. Exper. Biol.*, 29:454-468.
- Elton, C. 1938. A convenient method of mounting and storing the skins of small mammals. *J. Mamm.*, 19:244-245.
- Steel, C. A. B. 1970. A system for the storage of mounted birds. *Museums J.*, 70:10-12.

SKELETAL MATERIAL

- Colbert, E. H. 1961. Inexpensive racks for the storage of large specimens. *Curator*, 4:368-370.
- _____. 1965. Old bones and what to do about them. *Curator*, 8:302-318.
- Fraser, F. C., and G. F. H. Smith. 1934. The blue whale skeleton in the Whale Hall. *Nat. Hist. Mag.*, 4:228-232.
- Lewis, S. D., and A. Redfield. 1970. Care of osteological collections. *Mus. Anthrop., Univ. Missouri, Columbia, Mus. Briefs*, 4:i+1-18.
- Palmer, R. S. 1946. Plastic vials for storing small skulls. *J. Mamm.*, 27:276-277.
- White, J. A. 1951. A practical method for mounting the bacula of small mammals. *J. Mamm.*, 32:125.

FLUID PRESERVED MATERIAL

- Dundee, H. H. 1962. A low-cost storage tank for preserved animals. *Turtox News*, 40:298-299.
- Kannemeyer, S. 1973. The storage of a wet collection. *Bull. South African Mus. Assoc.*, 10:274-277.
- Palmer, W. M. 1974. Inexpensive jars for museum specimens. *Curator*, 17:321-324.
- Schultz, L. P., and E. D. Reid. 1939. Oak barrels for the storage of large alcoholic specimens. *Turtox News*, 17:1-2.
- Smith, B. J. 1973. Storage of invertebrate collections in overseas museums. *Kalori*, 45:55-56.
- Smith, C. L. 1965. Maintaining inactive fish collections. *Curator*, 8:248-255.
- Sneli, J. 1967. "Norge" jars, a substitute for Mason fruit-canning jars in preservation of alcoholic collections of invertebrates. *Syst. Zool.*, 16:173-174.
- Storey, M., and N. J. Wilimovsky. 1955. Curatorial practices in zoological research collections. I. Preliminary report on containers and closures for storing specimens preserved in liquid. *Circ. Nat. Hist. Mus., Stanford Univ.*, 3:1-22.
- Zweifel, R. G. 1966. Guidelines for the care of a herpetological collection. *Curator*, 9:24-35.

SPECIAL ITEMS

- Brown, J. H. 1927. A new device for filing microscope slides. *Science*, 65:501-502.
- Didier, R. 1948. Preparation et conservation de los penien des mammifères. *Mammalia*, 12:42-44.
- Fosberg, F. R. 1939. Safeguarding type specimens. *Science*, 89:245.
- Hodgson, F. 1974. The collection and storage of genetic samples from rare animals. *Assoc. Syst. Coll. Newsletter*, 2(3):16-17.

DOCUMENTARY MATERIALS

- Allen, F. S. 1941. Maps in the library. *Illinois Libraries*, 23:3-5.
- Anonymous. 1948. Microfilms in public libraries: some notes on procedures. *Library Assoc. Record, Manchester*, 50:42-43.
- _____. 1955. The storage and conservation of maps. *Geographical J.*, 121:182-189.
- Barrow, W. J. 1965. Archival file folders. *Amer. Archivist*, 28:125-128.
- Boggs, S. W., and D. C. Lewis. 1945. The classification and cataloging of maps and atlases. *Special Libraries Assoc.*, New York, 175 pp.
- Bradley, J. G. 1949. Film vaults—construction and use. *J. Soc. Mot. Pic. Tele. Eng.*, 53:193-206.

- Brown, H. G. 1952. Problems of storing film for archive purposes. *British Kinematography*, 20:150-162.
- Brown, L. A. 1940. Notes on the care and cataloging of old maps. Hawthorn House, Windham, Connecticut, 110 pp.
- Collison, R. L. 1955. Modern storage equipment and methods for special materials in libraries. London Library Assoc., Hampstead, England, 32 pp.
- Dice, L. R. 1939. A simple method for filing miniature negatives and microfilm records in strips. *Science*, 89:39-40.
- Effinger, C. M. 1945. Simple film filing. *Sci. Newsletter*, 47:359.
- Fitzpatrick, J. C. 1921. Notes on the care, cataloging, calendaring and arranging of manuscripts. U.S. Government Printing Office, Washington, D.C., 47 pp.
- Frizzell, D. L. 1949. Flat filing cabinets for cardboard microslides. *Micropaleontologist*, 3:30.
- Hill, J. D. 1965. Map and atlas cases. *Library Trends*, 13:481-487.
- Hirsh, A. A. 1964. Heavy duty mounting for maps. *Water and Sewerage Works*, 111:117.
- Kimberly, A. E. 1950. New developments in record containers. *Amer. Archivist*, 13:233-236.
- Kramer, F. 1952. Map mounting procedure. *J. Geog.*, 51:21-23.
- Lomer, G. R. 1948. Lantern slide storing and cataloging. *Canadian Library Assoc. Bull.*, 4:119-122.
- Mackin, J. H. 1936. A method of mounting maps. *Science*, 84:233-234.
- Mitra, D. K. 1968. Maps in libraries: their storage and preservation. *Herald Library Sci.*, 7:27-32.
- Nelson, H. 1966. Protection and storage of EDP tapes. *Record Mgmt. J.*, 4:15-17.
- Perusse, L. F. 1954. Classifying and cataloging lantern slides for the architectural library. *J. Cataloging and Classification*, 10:77-83.
- Porter, R. M. 1944. The map collection in the public library: acquisition, cataloging, and care of the collection. *Wilson Library Bull.*, 19:270-272.
- Shell, M. 1951. Filing and classification methods of photographic and illustrative material. I. Operations and methods of various photographic departments; II. Simple systems applicable to the classification of medical material. *J. Biol. Photo. Assoc.*, 19:129-134, 158-160.
- Steckzer, B. 1950. Storage and preservation of maps in the Swedish military archives. *Indian Archives*, 4:14-19.
- Winkler, J. F. 1949. Cartographic record filing in the National Archives. *Amer. Archivist*, 12:283-285.
- _____. 1952. One solution to the map handling problem. *Amer. Archivist*, 14:259-261.
- Yeager, L. E. 1940. Subjects for filing wildlife literature. *J. Wildlife Mgmt.*, 4:44-54.

MAINTENANCE

GENERAL

- Clancey, P. A. 1953. Notes on the care and maintenance of study collections of birds and mammals. *Bull. South African Mus. Assoc.*, 5:199-205.
- Gilmour, K. 1973. Conservation. *Occasional*, 1:19-24.
- Greathouse, G. A., and C. J. Wessel (eds.). 1954. Deterioration of materials, causes and preventive techniques. Reinhold Publ. Corp., New York. xvii+835 pp.
- Hubbs, L. G. 1970. Applying conservation. *Proc. 17th Annual Conf. Mountain-Plains Mus.*, 2:131-137.
- International Council of Museums. 1969. Problems of conservation in museums. Allen and Unwin, London, 224 pp.
- Jackson, H. H. T. 1926. The care of museum specimens of Recent mammals. *J. Mamm.*, 7:113-118.
- Kennedy, R. A. 1960. Conservation in the humid tropical zone. *Mus. News*, 38(7):16-20.
- Lawrence, C. A., and S. S. Block (eds.). 1968. Disinfection, sterilization, and preservation. Lea and Febiger, Philadelphia, viii+808 pp.
- Parkhurst, C. 1962. Museum conservation. Cooperative solution. *Mus. News*, 40(5):18-39.

- Plenderleach, H. G., and P. Philipot. 1960. Climatology and conservation in museums. *Museum*, 13:242-289.
- Windsor, A. S. 1938. Maintenance measure for the teaching museum. *Turttox News*, 16:40-42.

CARE OF SPECIMENS

- Anonymous. 1937. Facts you should know about furs. Better Business Bureau, Pittsburgh, Pennsylvania, 16 pp.
- Ashbrook, F. G. Furs glamorous and practical. D. Van Nostrand, New York, xiv+88 pp.
- Barbour, T. 1943. Alcohol evaporation in jars with glass stoppers. *Mus. News*, 20(14):8.
- Bond, R. M. 1939. The care of skulls and skeletons of small mammals. *Science*, 89:324.
- Brink A. S. 1956. On the uses of glyptal in paleontology. *Paleontologia Africana*, 4:124-130.
- Burns, G. E. 1940. A practical method for mending bones. *Soc. Amer. Arch. Notebook*, 1:98.
- _____. 1959. Removal of old blood in bird and mammal specimens. *Bull. South African Mus. Assoc.*, 7:65.
- Davidson, R. R. 1956. A simple method of refurbishing faded mammal and bird mounts. *Bull. South African Mus. Assoc.*, 6:122-123.
- Downs, W. G. 1943. Polyvinyl alcohol: a medium for mounting and cleaning biological specimens. *Science*, 97:539-540.
- Finlayson, H. H. 1932. A simple apparatus for degreasing bones for museum purposes. *Trans. Roy. Soc. South Australia*, 56:172-174.
- Fleming, J. H. 1926. Lloyd's degreasing apparatus. *J. Mamm.*, 7:62.
- Guldbeck, P. E. 1969. Leather: its understanding and care. *Amer. Assoc. State Local Hist., Tech Leaf*, 1, *History News*, 24(4):1-12.
- Hollister, N. 1923. Museum preservation of incisor teeth of Ruminantia. *J. Mamm.*, 4:123-125.
- Hudson, G. E. 1935. A practical method of degreasing study skins. *J. Mamm.*, 15:329-330.
- Kummel, B., and D. Raup (eds.). 1964. Handbook of paleontological techniques. W. H. Freeman, San Francisco, xiii+852 pp.
- Levi, H. W. 1966. The care of alcoholic collections of small invertebrates. *Syst. Zool.*, 14:183-188.
- Lewis, S. D., and A. Redfield. 1970. Care of osteological collections. *Mus. Anthro., Univ. Missouri, Columbia, Mus. Briefs*, 4:i+1-18.
- Lloyd, H. 1918. The extraction of fat from bird-skins. *Auk*, 35:164-169.
- Martin, R. L. 1964. Skull degreasing technique. *Turttox News*, 42:248-249.
- O'Shea, C. 1971. The use of dewatering fluids in the conservation of waterlogged wood and leather. *Museums J.*, 71:71-72.
- Sherman, H. B. 1925. A degreasing apparatus. *J. Mamm.*, 6:182-184.
- Tobias, R. D. 1960. Furs and their proper care. P. 12, in *The romance of furs* (Mortemoth Chem. Lab.), Milwaukee, Wisconsin, 31 pp.
- Van Cleave, H. J., and J. A. Ross. 1947. A method for reclaiming dried zoological specimens. *Science*, 105:318.
- Velich, R. 1965. The repair and cleaning of an old painted buffalo robe. *Curator*, 8:319-324.
- Waterer, J. W. 1972. A guide to the conservation and restoration of objects made wholly or in part of leather. Drake Publ., New York, x+60 pp.

CONTROL OF HARMFUL ORGANISMS

- Abbott, W. S. 1925. A method of computing the effectiveness of an insecticide. *J. Economic Entomol.*, 18:265-267.
- Anonymous. 1975. Museum fumigant controls. *Assoc. Syst. Coll. Newsletter*, 3(5):7.
- _____. 1976. Fumigants . . . procedures, precautions, and institutional responsibility for their safe use. *Assoc. Syst. Coll. Newsletter*, 4(1):5-6.
- Armitage, H. M. 1955. Fumigation-eradication tests on Khapia beetle. *Down to Earth*, 10:2-3.
- Back, E. A. 1923. Carpet beetles and their control. *Bull. U.S. Dept. Agr. Farmers'*, 1346:x+1-14.
- _____. 1923. Clothes moths and their control. *Bull. U.S. Dept. Agr. Farmers'*, 1353:ii+1-29.

- Back, E. A., and R. T. Cotton. 1924. Ethyl acetate-carbon tetrachloride mixture. *J. Economic Entomol.*, 17:663.
- _____. 1942. Industrial fumigation against insects. *U.S. Dept. Agr. Circ.*, 369:1-64.
- Bell, J. T. 1877. How to destroy cabinet pests. *Canadian Entomol.*, 9:139-140.
- Bishopp, F. C. 1946. The insecticide situation. *J. Economic Entomol.*, 39:449-459.
- Cotton, R. T. 1956. Pests of stored grain and grain products. Burgess Publ. Co., Minneapolis, Minnesota, i+306 pp.
- Duckett, A. B. 1915. Para-dichlorobenzene as an insect fumigant. *Bull. U.S. Dept. Agr.*, 167:1-7.
- Grady, A. G. 1928. Studies in breeding insects throughout the year for insecticide tests. *J. Economic Entomol.*, 21:604-608.
- Heal, R. E. 1942. Evaluating protection of fabrics from clothes moths and carpet beetle attack. *J. Economic Entomol.*, 35:249-255.
- Hitchner, L. S. 1945. Outlines of war against insects and fungi. *Texas Citric Farming*, 22:15.
- Jachowski, C. W. L., L. Ingle, and R. L. Metcalfe. 1945. A new hydro-carbon insecticide. *J. Economic Entomol.*, 38:661-668.
- Jensen, D. D., and F. G. Holdaway. 1946. DDT in control of hide beetles. *J. Economic Entomol.*, 39:283-286.
- Johnson, W. G. 1902. Fumigation methods. Orange Judd, New York, xvi+313 pp.
- Metcalfe, C. L., and W. P. Flint. 1928. Destructive and useful insects; their habits and control. McGraw-Hill, New York, xii+918 pp.
- Monto, H. A. U. 1961. Manual of fumigation for insect control. Food Agr. Organ. United Nations, Rome, Agr. Studies, 56:xi+1-294.
- Rohiver, S. A. 1945. Insecticides. *U.S. Bur. Agr. Econ.*, 29:37-38.
- Schantz, V. S. 1949. A war-time fumigant successful. *J. Mamm.*, 30:82-83.
- Siegler, E. H., and E. E. Fleck. 1945. Alpha-trichloromethyl-substituted benzenes to control codling moth larvae. *J. Economic Entomol.*, 38:716-717.
- Storer, T. I. 1931. Amount of carbon disulphide needed in fumigating museum cases. *J. Mamm.*, 12:321-322.

DOCUMENTARY MATERIAL

- Barrow, W. J. 1953. Migration of impurities in paper. *Archivum*, 3:105-108.
- _____. 1972. Manuscripts and documents: their deterioration and restoration. Univ. Press Virginia, Charlottesville, xxvii+84 pp.
- Belov, G. A. 1960. New techniques, new materials and experiences concerning restoration of documents and seals, preservation and plans, and photography since 1950. *Archivum*, 10:22-80, 104-105.
- Calhoun, J. M. 1967. The preservation of motion picture film. *Amer. Archivist*, 30:517-525.
- Casford, E. L. 1939. Periodicals: their use and preservation. *Wilson Library Bull.*, 13:593-596.
- Clapp, V. W., F. H. Henshaw, and D. C. Holmes. 1955. Are your microfilms deteriorating acceptably? *Library J.*, 80:589-595.
- Clayton, N. W., and G. H. Fudge. 1966. Chemical dehumidification protects microfilm records stored in mountain vaults. *Heating, Piping and Air Conditioning*, 38:127-129.
- Crabill, R. 1960. Clear plastic spray for label restoration and preservation. *Turttox News*, 38:110.
- Cunha, G. D. M., and D. G. Cunha. 1972. Conservation of library materials, a manual and bibliography on the care, repair, and restoration of library materials. (2 Vol.) Scarecrow Press, New Jersey, 1:xvi+406 pp.; 2:xiv+414 pp.
- Dice, L. R. 1925. The care of books, pamphlets, and bibliographies. *J. Mamm.*, 6:250-256.
- Eaton, G. T. 1970. Preservation, deterioration, restoration of photographic images. *Library Quarterly*, 40:85-98.
- Grant, J. 1937. Books and documents: dating, permanence, and preservation. Grafton and Co., London, xii+218 pp.
- Grove, L. E. 1963. The conservation of paper. *Mus. News*, 42(2):15-20.

- Josephson, A. G. S. 1922. The care of maps at the John Crerar Library. *Bull. Amer. Lib. Assoc.*, 16:263.
- Langwell, W. H. 1957. The conservation of books and documents. Issac Pitman and Sons, London, xxii+114 pp.
- LeGear, C. E. 1956. Maps. Their care, repair and preservation in libraries. Library of Congress, Washington, D.C., ix+75 pp.
- Lewis, W. P. 1930. The care of maps and atlases in the library. *Library J.*, 55:494-496.
- McCamy, C. S., and C. I. Pope. 1965. Current research of preservation of archival records on silver gelatin type microfilm in roll form. *J. Research*, 69A:385-395.
- Meng, C. K. 1961. A dehumidifier for the personal library. *Malayan Library J.*, 1:13.
- Noll, D. F. 1950. The maintenance of microfilm files. *Amer. Archivist*, 13:129-134.
- Ostroff, E. 1967. Preservation of photographs. *Photographic J.*, 107:309-314.
- . 1976. Conserving and restoring photographic collections. *Amer. Assoc. Mus.*, Washington, D.C., 16 pp.
- Skelton, R. A. 1954. The conservation of maps. *Bull. Soc. Loc. Archivists*, 14:13-19.
- Smither, R. E. 1912-1913. The treatment of pamphlets, maps, photographs and similar items. *Library World*, 15:195-199.
- Wilson, W. K. 1970. Record papers and their preservation. *Chemistry*, 43:8-12.
- Zaehnsdorf, E., and C. I. Hutching. 1932. The care and preservation of books. *Amer. Book Collector*, 1:33-55.

CLIMATE CONTROL

- Amdur, E. J. 1964. Humidity control—isolated area plan. *Mus. News*, 43(4):58-60.
- Anonymous. 1955. Plastic filters reduce light damage in museums. *Plastics Industry*, 13(12):15.
- . 1960. Climatology and conservation in museums. *Museum*, 13:202-289.
- Block, S. S. 1953. Humidity requirements for mold growth. *Engineering Prog.*, 7:287-293.
- Block, S. S., R. Rodriguez-Torrent, M. B. Cole, and A. E. Prince. 1962. Humidity and temperature requirements of selected fungi. *Dev. Indust. Microbiol.*, 3:204-216.
- Buck, R. D. 1964. A specification for museum air conditioning. *Mus. News*, 43(4):53-57.
- Cameron, D. 1968. Environmental control: a theoretical solution. *Mus. News*, 46(9):17-21.
- Coramens, P. 1936. Air conditioning in museums. *Museums J.*, 36:341-345.
- . 1964. Control of the deteriorating effects of light upon museum objects. *Museum*, 17:57-98.
- Feller, R. L. 1968. Control of deteriorating effects of light on museum objects. *Mus. News*, 46(9):39-47.
- Harmer, S. F. 1922. Experimenting on the fading of museum specimens. *Museums J.*, 21:205-222.
- Harrison, L. S. 1953. Report on the deteriorating effect of modern light sources. *Metropolitan Mus. Art*, New York, 20 pp.
- Harvey, J. 1973. Air-conditioning for museums. *Museums J.*, 73:11-16.
- Kooistra, J. F. 1941. Highlights of air conditioning for museums. *Mus. News*, 19(2):7-8.
- Krogh, A. 1948. The dust problem in museums and how to solve it. *Museums J.*, 47:183-188.
- Lewis, L. L. 1957. Air conditioning for museums. *Museum*, 10:140-147.
- McCabe, J. F. 1936. Museum mechanics, air conditioning solves museum's major problems. *Aerologist*, 12(4):9-11, 23, 28.
- Nelson, E. R. 1968. Do we understand museum air conditioning? *Curator*, 11:127-136.
- O'Brian, F. E. M. 1948. The control of humidity by saturated salt solutions. *J. Scientific Instruments*, 25:73-76.
- Plenderleith, H. J., and P. Philippot. 1960. Climatology and conservation in museums. *Museum*, 13:242-289.
- Rose, C. D., and J. N. Turner. 1951. Mold growth on leather as affected by humidity changes. *J. Soc. Leather Trades Chemists*, 35:37-42.

- Saurwein, G. K. 1941. Air conditioning for protection. *Heating, Piping, and Air Conditioning*, 13:311-313.
- Stolow, N. 1966. The action of environment on museum objects. Part I: humidity, temperature, atmospheric pollution. *Curator*, 9:175-185.
- . 1966. The action of environment on museum objects. Part II: light. *Curator*, 9:298-306.
- . 1966. Fundamental case design for humidity sensitive museum collections. *Mus. News*, 44(6):45-52.
- Stout, G. L. 1952. Air conditioning in storage. *Worcester Art Mus., News Bull. Calendar*, 17:29-31.
- Thomson, G. (ed.). 1967. *Museum climatology*. National Gallery, London, v+296 pp.
- U.S. Public Health Service. 1969. *Pollution: causes, costs, control*. *Chemical Engineering News*, 49:33-68.
- Werner, A. E. 1957. Heating and ventilation. *Museums J.*, 57:159.
- Wessel, C. J. 1970. Environmental factors affecting the permanence of library materials. *Library Quart.*, 40:39-84.
- Whitby, K. T., A. B. Algren, R. C. Jordan, and J. C. Annis. 1958. Evaluation of air cleaners for air conditioning and ventilation. *Trans. Amer. Soc. Heating, Refrigeration, and Air Conditioning Engineers*, 64:401-420.

INSURANCE AND SECURITY

- Allen, C. G., and H. T. Block. 1974. Should museums form a buyers' pool for insurance? *Mus. News*, 52(6):32-35.
- Block, H. T. 1972. Insurance: an integral part of your security dollar. *Mus. News*, 50(5):26-29.
- DuBose, B. M. 1969. Insuring against loss. *Hist. News*, 24, Tech. Leaf., 50:1-4.
- Dudley, D. 1967. Museum security: records, storage, and insurance. *Mus. News*, 45(6):29-31.
- Keck, C. K., H. T. Block, J. Chapman, J. B. Lawton, and N. Stolow. 1966. A primer on museum security. *New York State Hist. Assoc.*, vii+85 pp.
- Landais, H. 1974. Museum and insurance. *ICOM [International Council of Museums] News*, 27:79-82.
- Lawton, J. B. 1966. Museum insurance. *Curator*, 9:289-297.
- Monreal, L. 1974. Notes on insurance. *ICOM [International Council of Museums] News*, 27:76-78.
- Ownbey, D. W. 1968. Are you properly insured? *Western Mus. Quart.*, 4:11-16.
- Pfeffer, I. 1974. Strategies for insurance cost reduction in museums. *ICOM [International Council of Museums] News*, 27:82-85.
- Vance, D. 1969. A proposed standard insurance policy. *Mus. News*, 48(1):21-26.

UTILIZATION

GENERAL

- Allen, J. F. 1974. Systematics collections—an essential resource in environmental assessment. *Assoc. Syst. Coll. Newsletter*, 2(3):4.
- American Society of Mammalogists. 1975. Mammalian systematists and other users of collections of Recent mammals. *J. Mamm.*, 57(Suppl. No. 2):1-9.
- Anderson, S., J. K. Douth, and J. S. Findley. 1963. Collections of mammals in North America. *J. Mamm.*, 44:471-500.
- Baker, R. H. 1970. The status of study collections and type specimens in North American mammals. *J. Mamm.*, 51:212.
- Choate, J. R., and H. H. Genoways. 1975. Collections of Recent mammals in North America. *J. Mamm.*, 56:452-502.
- Conference of Directors of Systematic Collections. 1971. *The systematic biology collections of the United States: an essential resource*. New York Botanical Garden, New York, 1:xi+1-33; 2:iv+34-85.

- Doutt, J. K., A. B. Howell, and W. B. Davis. 1945. The mammal collections of North America. *J. Mamm.*, 26:231-272.
- Edwards, S. R., and L. D. Grotta (eds.). 1975. Taxonomic and ecological services: underdeveloped resources. *Assoc. Syst. Coll.*, Lawrence, Kansas, vii+52 pp.
- Genoways, H. H., J. R. Choate, E. F. Pembleton, I. F. Greenbaum, and J. W. Bickham. 1976. Systematists, other users, and uses of North American collections of Recent mammals. *Museology*, 3:1-87.
- Ghiselin, J. 1974. Needs for systematics facilities in applied ecology. *Assoc. Syst. Coll. Newsletter*, 2(3):5.
- Gilbert, M. L. 1962. A teaching resource for biology. *Mus. News*, 40(10):33-37.
- Jones, J. K., Jr., and S. Anderson (eds.). 1970. Readings in mammalogy. *Monogr. Univ. Kansas, Mus. Nat. Hist.*, 2:ix+1-586.
- Jones, J. K., Jr., S. Anderson, and R. S. Hoffmann (eds.). 1977. Selected readings in mammalogy. *Monogr. Univ. Kansas, Mus. Nat. Hist.*, 5:ix+1-638.
- Lidicker, W. Z., J. L. Patton, and S. Y. Yang. 1974. Announcing the development of a frozen tissue collection. *J. Mamm.*, 55:263-264.
- Schlitter, D. A. 1974. Catalogues of type specimens. *J. Mamm.*, 55:264-266.
- Van Gelder, R. G. 1965. A survey of North American mammalogy. *Anais Congr. Lat.-Amer. Zool.*, 2:375-379.

LOANS

- Anonymous. 1927. General directions for sending pathological specimens to biological laboratories. *Canadian Field Nat.*, 41:113-114.
- . 1974. ICOM guidelines for loans. *ICOM [International Council of Museums] News*, 27:78-79.
- Bush, N. P. 1951. Comparative methods of transportation and value declarations to carriers. *Mus. News*, 28(19):5-8.
- Fall, F. K. 1965. New industrial packing materials: their possible uses for museums. *Mus. News*, 44(4):47-57.
- Hatt, R. T., and G. L. Stout. 1950. Standard procedure for inter-museum loans. *Mus. News*, 27(18):7-8.
- Hoffmeister, D. F. 1973. A suggested method of shipping skulls in vials. *J. Mamm.*, 54:293-294.
- Keck, C. 1970. Safeguarding your collection in travel. *Amer. Assoc. State Local Hist.*, Nashville, Tennessee, 78 pp.
- Santini, L. 1970. It has got to be packed right. *Proc. Annual Conf. Mountain-Plains Mus.*, 2:39-48.
- Shapiro, H. L. 1960. Borrowing and lending. *Curator*, 3:197-203.
- Wythe, M. W. 1938. Safe packing of dry study-skins of birds for shipment. *Condor*, 40:47-48.

Address of authors: *The Museum, Texas Tech University, Lubbock, 79409*. Present address of: S. L. Williams: *Section of Mammals, Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, Pennsylvania 15213*; R. Laubach and C. M. Laubach: *Des Moines Center of Science and Industry, 4500 Grand Avenue, Greenwood-Ashworth Park, Des Moines, Iowa 50312*.

