

# BIRD EGG COLLECTIONS IN NORTH AMERICA<sup>1</sup>

LLOYD F. KIFF

*Western Foundation of Vertebrate Zoology, 1100 Glendon Avenue,  
Los Angeles, California 90024 USA*

Following several decades of virtual neglect, collections of avian eggshells have received a great deal of research attention in recent years. In addition to their importance for basic reference purposes, egg collections serve as valuable tools in such areas as systematics, ecology, physiology, zoogeography, and pollution studies. Their associated data can be used as nest record card systems, and they provide useful breeding and distributional data to compilers of regional lists or to persons conducting environmental surveys of particular localities. A recent survey (*in* J. R. King and W. J. Bock 1978, Workshop on a National Plan for Ornithology, Final Report, Panel on Systematics Collections) indicated that at least one-third of the professional ornithologists in the United States regularly use egg collections in their work.

The A.O.U. Committee on Bird Collections included data on North American egg collections in its first report (Banks et al. 1973, *Auk* 90: 136–170) and in a later update (Clench et al. 1976, *Auk* 93: 126–129). Subsequent changes in the location or composition of several major collections and the discovery of others not previously listed prompted this survey.

Using the previous A.O.U. reports as a starting point, I sent survey forms to all institutions or individuals that had reported housing at least 200 egg sets with data. In addition, I contacted all previously unlisted collections known to me. The majority of the survey forms were returned promptly. Persons who did not respond and who were thought to house more than 500 egg sets were interviewed by telephone. I did not attempt to contact nonrespondents believed to have collections containing fewer than 500 sets. In the listings that follow, those collections are shown in parentheses, and it is possible that some may no longer exist.

In the collections listings, the information supplied by survey respondents is summarized in the following sequence:

1. Name of collection.
2. Collection mailing address.
3. Number of egg sets with data. Minimal data are considered to be species name and date and locality of collection. If the set total was estimated, this is indicated.
4. Geographical areas of representation. States, provinces, or sub-regions of particular emphasis appear in parentheses.
5. Names of component collections. If only a portion of a formerly discrete collection is now housed at a particular site, this is indicated by "(pt.)" following the component collection name.
6. Primary uses of collection (e.g. research, teaching, display, or reference).
7. Person in charge of collection and title (if provided).

Collections containing more than 200 sets that were listed in the prior A.O.U. reports, but that have now been moved to other locations, are cross-indexed.

---

<sup>1</sup> Received 17 April 1979, accepted 28 July 1979.

Indices of component collections and geographical coverages will be provided by the author to interested persons upon request. Information on unlisted collections or on changes in the status of those that are included here is welcomed in hopes that it can be incorporated in a future update of this survey.

### RESULTS

This report contains information on 107 egg collections in the United States and Canada that contain more than 200 egg sets with data. In aggregate, these collections contain an estimated 525,000 sets of eggs.

Fifty-nine of the collections contain more than 1,000 sets. In general, these collections are maintained primarily for research purposes, whereas smaller collections tend to be used more for teaching or display purposes. It should be emphasized that egg collections that are displayed for long periods lose much of their research value because of damage resulting from exposure to light, dust, and other factors.

The 20 largest collections contain an estimated 386,000 sets, or 74% of the total specimens in North American egg collections. They are as follows:

|       |                                                |              |
|-------|------------------------------------------------|--------------|
| (1)   | Western Foundation of Vertebrate Zoology       | 120,000 sets |
| (2)   | National Museum of Natural History             | 47,500       |
| (3)   | Delaware Museum of Natural History             | 35,510       |
| (4)   | San Bernardino County Museum                   | 25,735       |
| (5-6) | American Museum of Natural History             |              |
|       | Florida State Museum                           | 18,000       |
| (7)   | Field Museum of Natural History                | 16,430       |
| (8)   | Nelson D. Hoy collection (Media, Pennsylvania) | 15,030       |
| (9)   | Museum of Vertebrate Zoology                   | 13,500       |
| (10)  | Royal Ontario Museum                           | 12,000       |
| (11)  | University of Wisconsin-Green Bay              | 11,000       |
| (12)  | Santa Barbara Museum of Natural History        | 10,640       |
| (13)  | Museum of Comparative Zoology                  | 10,000       |
| (14)  | Carnegie Museum of Natural History             | 8,967        |
| (15)  | Peabody Museum of Natural History              | 8,000        |
| (16)  | Academy of Natural Sciences, Philadelphia      | 7,200        |
| (17)  | California Academy of Sciences                 | 7,148        |
| (18)  | Denver Museum of Natural History               | 7,053        |
| (19)  | New York State Museum                          | 6,500        |
| (20)  | Louisiana State University                     | 6,000        |

### ACKNOWLEDGMENTS

This project was supported by the Western Foundation of Vertebrate Zoology. I am especially grateful to the many museum curators and other persons who generously provided me with information about their collections. I appreciate reviews of the manuscript by R. C. Banks, M. H. Clench, and D. M. Niles. Assistance in preparation of the manuscript was provided by Julie Kiff and Dana Gardner.

## UNITED STATES COLLECTIONS

## ALABAMA

ANNISTON MUSEUM OF NATURAL HISTORY, *4301 McClellan Blvd., P.O. Box 1587, Anniston 36201*. 2,050 sets est.; North America (Pennsylvania, New York, Virginia, Florida, Texas, Washington, California), misc. foreign; G. B. Regar, H. S. Regar, W. H. Werner collections; research; H. Severn Regar.

(UNIVERSITY OF ALABAMA, *Museum of Natural History, University 35486*. 200 sets.)

## ARIZONA

NEOTROPICAL ORNITHOLOGICAL FOUNDATION, *1719 N. Huachuca St., Tucson 85705*. 2,266 sets; North America, Mexico, Argentina, Bolivia, Central and Southern Pacific Ocean, Samoa, Australia, Europe, Africa; R. S. Crossin, New Jersey State Museum collections; research; Richard S. Crossin, Curator.

UNIVERSITY OF ARIZONA, *Dept. of Ecology and Evolutionary Biology, Tucson 85721*. 700 sets est.; United States (Southwest); C. A. Andreson, H. Brown collections; reference; Dr. Stephen M. Russell.

## ARKANSAS

UNIVERSITY OF ARKANSAS, *338 Hotz Hall, Fayetteville 72701*. 2,000 sets est.; North America (Alabama, Arkansas, California, Colorado, Florida, Georgia, Illinois, Iowa, Texas, Virginia); C. H. Luther, R. A. Tomlinson, H. E. Wheeler collections; teaching; Dr. Nancy G. McCartney.

## CALIFORNIA

CALIFORNIA ACADEMY OF SCIENCES, *Golden Gate Park, San Francisco, 94118*. 7,148 sets; North America (Alaska, California, Baja California), Europe, Saudi Arabia, Antarctica, Argentina, Hawaii, Galapagos Islands; W. O. Emerson, B. W. Evermann, G. D. Hanna, J. and J. W. Mailliard, J. Moffitt, M. S. Ray (pt.), J. Van Denburgh collections; research; Dr. Laurence C. Binford, Curator. (CALIFORNIA STATE UNIVERSITY, LOS ANGELES, *Dept. of Zoology, Los Angeles 90032*. 290 sets.)

CALIFORNIA STATE UNIVERSITY, SAN JOSE. Collection now at Western Foundation of Vertebrate Zoology.

HUMBOLDT STATE UNIVERSITY, *Dept. of Wildlife Management, Arcata 95521*. 600 sets est.; California; Ashley, C. Clay collections; teaching; Dr. S. W. Harris.

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY. Collection now at Western Foundation of Vertebrate Zoology.

MOORE LABORATORY OF ZOOLOGY, *Occidental College, Los Angeles 90041*. 499 sets; North America, Mexico, South America; C. C. Lamb, R. T. Moore collections; teaching, research; Dr. Luis F. Baptista, Curator.

MUSEUM OF VERTEBRATE ZOOLOGY, *2593 Life Sciences Bldg., University of California, Berkeley 94720*. 13,500 sets est.; Western North America; D. A. Cohen (pt.), J. G. Cooper, W. B. Davis, R. Ellis, Jr., F. H. Fowler, J. Grinnell, W. B. Judson, A. H. Miller, M. S. Ray (pt.), O. P. Silliman collections; research; Dr. Ned K. Johnson, Curator.

OAKLAND MUSEUM, *1000 Oak St., Oakland 95607*. 305 sets; North America (California); reference; Dr. Donald D. Linsdale.

POMONA COLLEGE. Collection now at Western Foundation of Vertebrate Zoology.

SAN BERNARDINO COUNTY MUSEUM, *2024 Orange Tree Lane, Redlands 92373*. 25,735 sets; worldwide; E. Cardiff, J. Gillin (pt.), W. C. Hanna, J. K. Jensen, J. P. Norris, Jr. and Sr. (pt.), E. E. Sechrist collections; all purpose; Eugene A. Cardiff, Curator of Natural History.

SAN DIEGO NATURAL HISTORY MUSEUM, *Balboa Park, P.O. Box 1390, San Diego 92112*. 557 sets; North America (Western U.S., Alaska, Baja California); research; Dr. Amadeo M. Rea, Curator.

SANTA BARBARA MUSEUM OF NATURAL HISTORY, *2559 Puesta del Sol Rd., Santa Barbara 93105*. 10,640 sets; North America (Arizona, California), Western Palearctic, China, Uganda, Argentina; Sir C. Belcher (pt.), H. R. Caldwell, W. L. Dawson, D. L. Garrett, E. Jacot, L. T. Stevens (pt.), F. C. Willard collections; research; Janet A. Hamber, Associate Curator.

SANTA ROSA JUNIOR COLLEGE, *Santa Rosa 95401*. 290 sets est.; California; teaching; Peter V. Leveque.

SESPE MUSEUM OF COMPARATIVE OOOLOGY. Collection now at Western Foundation of Vertebrate Zoology.

WESTERN FOUNDATION OF VERTEBRATE ZOOLOGY, *1100 Glendon Ave., Los Angeles 90024*. 120,000 sets

est.; worldwide; C. A. Andresen, E. Arnold, C. W. Ashworth, M. C. Badger, H. H. Bailey (pt.), G. Bancroft, Jr. and Sr., Sir C. Belcher (pt.), A. H. Bliss, J. C. Braly, J. Brandt (pt.), G. Brem, Jr., W. Bryant, J. Burnham, H. C. Burt, N. K. and B. P. Carpenter (pt.), H. W. Carriger, C. E. Carter, W. L. Chambers, D. A. Cohen (pt.), J. Cole, N. B. Coltart, W. M. Congreve, J. R. Cruttenden, E. Currier, C. Cutress, H. P. Davis, F. A. W. Dean, D. R. DeGroot, D. R. Dickey, S. S. Dickey, J. B. Dixon, H. A. Edwards, H. R. Eschenburg, L. Fawcus, E. and W. Fiala, C. L. and P. H. Field, M. P. L. Fogden, F. N. Gallup, H. Gay, W. Goelitz, J. D. Goodall, W. E. Griffee, S. A. Grimes, R. C. Hallman, E. N. Harrison, W. J. Hendrickson, W. Hobson, W. B. Holbrook, L. B. and L. R. Howsley, L. M. Huey, A. A. Ilic, A. M. Ingersoll, J. W. Jacobs, Al. and Ant. Jay, G. Jensen, A. W. Johnson, Sr. (pt.), A. W. Johnson, Jr., L. F. Kiff, B. W. Knoblock, U. Kubat, J. E. Law, C. Littlejohn, L. H. Meitzen, T. C. Meitzen, G. F. Morcom, I. D. Nokes, F. F. Nyc, Jr., V. W. Owen, E. Paquette, J. R. Pemberton, L. G. and S. B. Peyton, W. M. Pierce, C. Potter, R. J. and R. K. Quigley, M. S. Ray (pt.), G. H. Ready, C. O. Reis, J. S. Rowley, W. B. Sampson, C. D. Scott, C. S. Sharp, W. J. Sheffler, B. Siemsen, E. Simmons, C. P. Smith, H. A. Snow, G. K. and J. O. Snyder, W. R. Spofford, R. Stabler, L. T. Stevens (pt.), F. G. Stiles, E. A. Stoner, J. W. Sugden, J. Suthard, G. Thomas, C. S. Thompson, R. Thompson, E. Treganza, E. B. Trescot, F. Truesdale, J. G. Tyler, W. E. Unglich, V. G. L. Van Someren (pt.), A. Walker, G. Walker, G. Willett, A. E. W. Williams, J. G. Williams, R. V. Williams, G. Withey, L. R. Wolfe collections and all or part of collections formerly housed at California Academy of Sciences, Natural History Museum of Los Angeles County, Pomona College, Oakland Museum, Oregon State University, San Diego Natural History Museum, San Jose State University, Stanford University, University of Utah; research; Lloyd F. Kiff, Curator.

#### COLORADO

- ADAMS STATE COLLEGE, *Biology Dept., Alamosa 81101*. 600 sets est.; United States (Colorado, New Mexico, Florida); J. H. Brandt (pt.) collection; teaching, research; Dr. V. F. Keen.
- COLORADO STATE UNIVERSITY, *Dept. of Zoology and Dept. of Fishery and Wildlife Biology, Fort Collins 80523*. 230 sets est.; North America (Colorado); teaching, research; Dr. Myron T. Baker, Dr. Ronald A. Ryder.
- DENVER MUSEUM OF NATURAL HISTORY, *City Park, Denver 80205*. 7,053 sets; North America (Alaska, Colorado), misc. foreign; W. C. Bradbury, Messenger-Dille collections; research, display; Betsy Webb, Curator.
- UNIVERSITY OF COLORADO, *Museum, Boulder 80309*. 1,588 sets; United States (California, Colorado, Illinois, Iowa, Massachusetts, New York, Wisconsin); W. Bergtold, D. Gale, G. Morrison, A. H. and H. J. Stockdar collections; teaching, display; Dr. Shi-Kuei Wu.

#### CONNECTICUT

- PEABODY MUSEUM OF NATURAL HISTORY, *Yale University, New Haven 06520*. 8,000 sets est.; United States; L. B. Bishop, H. O. Havemeyer collections; all purpose; Dr. Charles G. Sibley, Curator.
- UNIVERSITY OF CONNECTICUT, *Biological Sciences Group, Storrs 06268*. 800 sets est.; North America (Arizona, California, Colorado, Connecticut, Florida, Louisiana, Maine, North Dakota, Texas, Utah, Wisconsin); H. W. Beers, H. R. Buck, W. D. Carrier, W. Clayton, E. D. Field, H. S. Sowers collections; reference, teaching, research; Dr. George A. Clark, Jr., Mr. Robert E. Dubos.

#### DELAWARE

- DELAWARE MUSEUM OF NATURAL HISTORY, *Box 3937, Greenville 19807*. 35,510 sets; North America (Florida), Western Palearctic, Southeast Asia, India, Japan, Africa, Argentina, Chile; British Trust for Ornithology (V. Hewitt and others), E. J. Court, D. J. Nicholson collections; research; Dr. David M. Niles, Curator.

#### DISTRICT OF COLUMBIA

- NATIONAL MUSEUM OF NATURAL HISTORY, *Division of Birds, Smithsonian Institution, 10th and Constitution Ave., N. W., Washington 20560*. 47,500 sets (close est.); worldwide; C. Bendire, A. C. Bent, S. F. Blake, C. P. Buck, D. B. Bull (pt.), R. McFarlane, T. W. Richards, A. Wetmore, R. W. Williams, D. C. Worshester and other collections; research; supervisory curators or J. P. Angle, Collection Manager.

## FLORIDA

FLORIDA STATE MUSEUM, *University of Florida, Gainesville 32601*. 18,000 sets est.; North America (Florida), misc. foreign; C. E. Doe-Parsons collection; research, reference, teaching; Dr. J. W. Hardy, Curator.

FLORIDA STATE UNIVERSITY, *Museum, Dept. of Biological Science, Tallahassee 32306*. 300 sets est.; United States (Florida): teaching; Dr. Frances C. James.

UNIVERSITY OF MIAMI, *Dept. of Biology, Coral Gables 33124*. 500+ sets est.; Holarctic; J. Weber collection; inactive; Dr. Oscar T. Owre.

## IDAHO

IDAHO STATE UNIVERSITY, *Dept. of Biology, Pocatello 83209*. 385 sets est.; Intermontane United States; teaching, research; Dr. Charles H. Trost.

## ILLINOIS

CHICAGO ACADEMY OF SCIENCES, *2001 N. Clark St., Chicago 60614*. 1,500 sets est.; North America; E. R. Ford collection; research, reference; George Iannarone, Curator.

FIELD MUSEUM OF NATURAL HISTORY, *Roosevelt Road at Lakeshore Drive, Chicago 60605*. 16,430 sets; North America, misc. foreign; R. M. Barnes (pt.), C. B. Cory, B. Gault, C. K. Knickerbocker, C. Richards, E. J. Spink collections; research; Dr. John W. Fitzpatrick, Curator.

ILLINOIS STATE MUSEUM, *Springfield 62706*. 4,500 sets est.; North America, misc. foreign; R. M. Barnes (pt.), H. M. Holland collections; research, display; H. David Bohlen.

UNIVERSITY OF ILLINOIS, *Museum of Natural History, Urbana 61801*. 917 sets; North America (California, Illinois, Texas, Canada), British Isles, Germany, Finland, Greenland; R. M. Barnes (pt.), M. K. and M. H. Barnum, I. E. Hess collections; research, display; Dr. Donald F. Hoffmeister.

## INDIANA

EARLHAM COLLEGE, *Joseph Moore Museum, Richmond 47374*. 550 sets est.; North America (Indiana), misc. foreign; teaching; Doug Levey, Curator.

## IOWA

COE COLLEGE, *Biology Dept., Cedar Rapids 52402*. 400 sets est.; North America (Iowa), British Honduras; B. H. Bailey, G. Berry, W. F. Kubichek collections; teaching, display; Dr. Karl E. Goellner, Prof. Emeritus.

PUTNAM MUSEUM, *1717 West 12th St., Davenport 52804*. 1,580 sets est.; United States (California, Florida, Illinois, Iowa, North Dakota, South Dakota, Texas), misc. foreign; S. K. Lowel collection; research; Janice A. Hall, Curator.

## KANSAS

UNIVERSITY OF KANSAS, *Museum of Natural History, Lawrence 66045*. 1,600 sets est.; Midwest U.S. (Kansas, Missouri, Nebraska, Texas); H. Harris, D. Teachenor collections; research; Dr. Robert M. Mengel.

## LOUISIANA

LOUISIANA STATE UNIVERSITY, *Museum of Zoology, Baton Rouge 70893*. 6,000 sets est.; North America (Louisiana, New Jersey, Pennsylvania, Tennessee), Mexico, Peru; A. F. Ganier, W. R. Getty, E. McIlhenny, R. F. Miller collections; research; Dr. John P. O'Neill, Director.

## MAINE

(BATES COLLEGE, *Stanton Museum, Box 751, Lewiston 04240*. 500 sets.)

(UNIVERSITY OF MAINE, *Zoology Dept. and School of Forest Resources and Maine Cooperative Wildlife Research Unit, Orono 04473* [data for two collections combined]. 360 sets [including those formerly at Portland Society of Natural History].)

## MASSACHUSETTS

- MUSEUM OF COMPARATIVE ZOOLOGY, *Harvard University, Cambridge 02138*. 10,000 sets est.; North America; W. Brewster, J. Thayer collections; research; Dr. R. A. Paynter, Jr., Curator.
- MUSEUM OF SCIENCE, *Science Park, Boston 02114*. 2,100 sets; North America (New England); O. Durfee, J. A. Farley, F. H. Kennard, F. B. McKechnie collections; reference; Roman Romach.
- PEABODY MUSEUM OF SALEM, *East India Square, Salem 01970*. 460 sets est.; United States (Massachusetts); reference; Sarah P. Ingalls.
- SCIENCE MUSEUM, *236 State St., Springfield 01103*. 1,000 sets est.; New England; research, display; Earl H. Reed, Asst. Director.
- UNIVERSITY OF MASSACHUSETTS, *Museum of Zoology, Dept. of Zoology, Amherst 01003*. 4,840 sets; North America, Europe, Africa, Asia; F. S. Hersey, F. M. Phelps collections; research; Curator, Vertebrate Collections.
- (WORCESTER NATURAL HISTORY SOCIETY, *21 Cedar St., Worcester 01609*. 300 sets.)

## MICHIGAN

- MICHIGAN STATE UNIVERSITY, *Museum, East Lansing 48824*. 300 sets est.; Midwestern U.S.; W. Barrows collection; display; Dr. Rollin H. Baker, Director.
- UNIVERSITY OF MICHIGAN, *Museum of Zoology, Ann Arbor 48109*. 2,300 sets; North America, misc. foreign; W. E. Hastings (pt.), H. H. Kimball, H. C. Oberholser (pt.), T. D. Perry (pt.), F. H. Test, P. W. Shufeldt (pt.), D. K. Williamson (pt.) collections; research; Dr. Robert W. Storer, Dr. Robert B. Payne.

## MINNESOTA

- JAMES FORD BELL MUSEUM OF NATURAL HISTORY, *10 Church St., SE, University of Minnesota, Minneapolis 55455*. 1,802 sets; North America (Minnesota), Mexico; B. Bailey, F. Benner, S. F. Cheney, G. Folds, D. Gale, J. C. Hvoslef, O. V. Jones, W. Kilgore, Jr., P. B. Peabody, J. R. Ralph, T. S. Roberts, E. S. Stebbins collections; research, teaching; Dr. Dwain W. Warner.
- JAMES FORD BELL MUSEUM OF NATURAL HISTORY, *Field Biology Program, 349 Bell Museum, 10 Church St., SE, University of Minnesota, Minneapolis 55455*. (Separate from regular Bell Museum collection.) 1,400 sets est.; North America (Canadian Arctic and Midwest), Antarctic, Sub-antarctic; E. J. DeCamps (pt.), W. E. Griffie (pt.), D. F. Parmelee collections; teaching, scientific illustration; Dr. David Parmelee, Director, Field Biology Program.

## MISSISSIPPI

- MISSISSIPPI MUSEUM OF NATURAL SCIENCE (formerly State Wildlife Museum), *111 North Jefferson St., Jackson 39202*. 670 sets; North America (Mississippi); W. Turcotte collection (on loan); research, display; B. E. Gandy, Museum Director.
- MISSISSIPPI STATE UNIVERSITY, *Dept. of Biological Sciences, Mississippi State 39762*. 300 sets est.; Mississippi, Missouri; research, reference; Dr. J. A. Jackson.

## NEBRASKA

- UNIVERSITY OF NEBRASKA, *State Museum, W-436 Nebraska Hall, Lincoln 68588*. 1,300 sets est.; North America (Great Plains); research; Brett C. Ratcliffe, Acting Curator.

## NEVADA

- UNIVERSITY OF NEVADA (RENO), *Dept. of Biology, Reno 89507*. 2,600 sets est.; North America (California, Nevada, Canada), Iceland, Greenland, British Isles, Cyprus, Australia; J. Labarthe, E. Willson collections; all purpose; Dr. Fred Ryser, Curator of Birds and Mammals.

## NEW JERSEY

- (PRINCETON MUSEUM OF ZOOLOGY, *Princeton 08540*. "Several hundred sets.")

## NEW MEXICO

UNIVERSITY OF NEW MEXICO, *Dept. of Biology, Albuquerque 87131*. 1,250 sets est.; North America (Alaska, California, New Mexico); W. W. Hill, J. S. Ligon collections; all purpose; Dr. J. David Ligon.

## NEW YORK

AMERICAN MUSEUM OF NATURAL HISTORY, *Central Park West at 79th St., New York 10024*. 18,000 sets est.; worldwide; P. B. Phillip collection and specimens obtained on AMNH expeditions; research; Dr. Wesley E. Lanyon, Curator.

BUFFALO MUSEUM OF SCIENCE, *Humboldt Parkway, Buffalo 14211*. 550 sets; North America (New York); W. P. Davison, D. E. Olson collections; teaching, reference; Dr. Robert F. Andrie.

CORNELL UNIVERSITY, *Ornithology Collection, Langmuir Laboratory, Ithaca 14853*. 1,800 sets est.; United States; teaching; Dr. Tom Cade, Curator, Rollin Bauer, Curatorial Associate.

NEW YORK STATE MUSEUM, *State Education Bldg., Albany 12224*. 6,500 sets est.; North America (New York, Northeastern U.S.), misc. foreign; B. W. Arnold, B. S. Bowdish, R. C. Latham collections; research, reference; E. M. Reilly, Jr., Curator.

ROCHESTER MUSEUM AND SCIENCE CENTER, *657 E. Ave., Box 1480, Rochester 14603*. 500 sets est.; North America; M. T. Cleckley, G. T. Duncan collections; teaching, display; Jerry H. Czech.

## OHIO

(CINCINNATI MUSEUM OF NATURAL HISTORY, *1720 Gilbert Ave., Cincinnati 45202*. 250 sets.)

CLEVELAND MUSEUM OF NATURAL HISTORY, *10600 East Blvd., Cleveland 44106*. 3,300 sets est.; North America (Ohio, Quebec, California, South Carolina), South Atlantic, West Africa; Blossom South Atlantic Expedition, A. I. Good, A. F. Holden, D. D. May, E. P. McCullagh, F. Shankland collections; research, display; Dr. Harold D. Mahan, Timothy O. Matson.

MIAMI UNIVERSITY, *Museum of Zoology, Oxford 45056*. 328 sets; North America (Ohio), misc. foreign; C. K. Lloyd collection; research; Dr. David R. Osborne.

OHIO STATE UNIVERSITY, *Museum of Zoology, 1813 North High St., Columbus 43210*. 4,370+ sets est.; North America (Ohio, Indiana); B. R. Bales, H. F. Price collections; research; Dr. Milton B. Trautman, Curator.

## OKLAHOMA

STOVALL MUSEUM OF SCIENCE AND HISTORY, *1335 ASP Ave., University of Oklahoma, Norman 73019*. 1,350 sets; North America, Mexico, Europe, pelagic; J. M. Carroll collection; research; Dr. Gary D. Schnell.

## OREGON

OREGON STATE UNIVERSITY. Collection now at Western Foundation of Vertebrate Zoology.

UNIVERSITY OF OREGON, *Museum of Natural History, Eugene 97403*. 1,000 sets est.; North America, Europe, China, Japan, Iceland, Asia Minor, Morocco, Surinam, Argentina, Australia, New Zealand; A. G. Prill collection; research; Dr. Eric P. Gustafson, Acting Curator.

## PENNSYLVANIA

ACADEMY OF NATURAL SCIENCES, *Nineteenth and the Parkway, Philadelphia 19103*. 7,200 sets est.; worldwide; J. Bond, C. J. Pennock, R. Sharples, E. Stuart, and other collections; research; Dr. Frank B. Gill, Curator.

CARNEGIE MUSEUM OF NATURAL HISTORY, *4400 Forbes Ave., Pittsburgh 15213*. 8,967 sets; North America, Honduras, Costa Rica, Colombia, Bolivia, Western Europe, Rhodesia, China; H. W. Brandt, T. D. Burleigh, M. A. Carriker, Jr., E. G. Holt, E. A. Sikken, R. B. Simpson, J. Steinbach, G. M. Sutton, W. E. C. Todd, A. C. Twomey, and other collections; research; Dr. Kenneth C. Parkes, Curator.

HOY, NELSON D. (private collection), *62 Paxon Hollow Road, Media 19063*. 15,030 sets; North America; J. R. Gillin (pt.), R. C. Harlow, N. D. Hoy, J. P. Norris, Jr. and Sr. (pt.) collections; display; N. D. Hoy.

- PENNSYLVANIA STATE UNIVERSITY, *Dept. of Biology, 208 Mueller Lab., University Park 16802*. 500+ sets est.; Northeastern U.S.; teaching; Dr. David L. Pearson.
- READING PUBLIC MUSEUM AND ART GALLERY, *500 Museum Rd., Reading 19611*. 5,000 sets est.; North America; research; Bruce L. Dietrich, Director.
- SNYDER, BARTON M. (private collection), *2830 W. South St., Allentown 18103*. 2,471 sets; North America, misc. foreign; teaching, display; Barton M. Snyder.
- WAGNER FREE INSTITUTE OF SCIENCE, *Seventeenth St. and Montgomery Ave., Philadelphia 19121*. 200 sets est.; Florida, Pennsylvania, New Jersey; C. W. Johnson, J. H. Reed collections; teaching, display; Mr. Robert Chambers, Director.
- WILLIAM PENN MEMORIAL MUSEUM (PENNSYLVANIA STATE MUSEUM), *Box 1026, Harrisburg 17120*. 1,024 sets est.; North America (Eastern U.S.), Central America, South America, Africa; T. R. Frank, H. H. Harrison, G. Houck, C. Platt, Jr., G. W. Roberts, B. P. Rothrock, B. H. Warren collections; all purpose; Mr. Roland Bergner, Associate Curator.

## SOUTH CAROLINA

- CHARLESTON MUSEUM, *121 Rutledge Ave., Charleston 29401*. 4,225 sets; North America (South Carolina), British Isles, Finland, Lapland, Iceland, Burundi; R. E. Baker, Jr., E. A. Cutts, A. Sprunt, Jr., E. G. Tabor, E. von Siebold Dingle, A. T. Wayne collections; research; Albert E. Sanders, Curator of Natural Sciences.
- CLEMSON UNIVERSITY, *Vertebrate Collections, Dept. of Zoology, Clemson 29631*. 5,500 sets est.; North America (South Carolina), Iceland, British Isles, Australia; H. L. Harllee collection; teaching, research; Stanlee Miller, Curator.

## SOUTH DAKOTA

- SOUTH DAKOTA STATE UNIVERSITY, *Dept. of Wildlife & Fisheries Sciences, Brookings 57007*. 271 sets; North America; J. H. Brandt collection (pt.); teaching, display; Dr. John T. Ratti.

## TENNESSEE

- CUMBERLAND MUSEUM AND SCIENCE CENTER, *800 Ridley Ave., Nashville 37203*. 1,200 sets est.; North America (Tennessee); H. S. Vaughn collection; research, display; Mary Thiema, Curator.
- EAST TENNESSEE STATE UNIVERSITY, *Vertebrate Collection, Dept. of Biological Science, Johnson City 32601*. 450 sets est.; North America (Tennessee); R. Lyle collection; all purpose; Jerry W. Nagel.
- UNIVERSITY OF THE SOUTH, *Dept. of Biology, Sewanee 37801*. 500 sets est.; North America (Tennessee); H. O. Todd, Jr. collection; research, teaching; Dr. H. C. Yeatman, Curator.
- UNIVERSITY OF TENNESSEE AT MARTIN, *Dept. of Biology, Martin 38238*. 340 sets; Tennessee; M. D. Williams collection; research; Dr. T. David Pitts, Curator.

## TEXAS

- CORPUS CHRISTI MUSEUM, *1919 N. Water St., Corpus Christi 78401*. 3,000 sets est.; North America; A. J. B. Kirn collection; research; Mary Jane Ducote.
- EL PASO CENTENNIAL MUSEUM, *University of Texas at El Paso, El Paso 79968*. 500 sets est.; North America (continental U.S.); G. R. Meyer collection; research, display; Steve Masler, Curator of Collections.
- (FORT WORTH MUSEUM OF SCIENCE AND HISTORY, *1501 Montgomery St., Fort Worth 76107*. 295 sets.)
- MORE, ROBERT L., SR. (private collection), *1903 Wilbarger St., Vernon, Texas 76384*. 500 sets est.; North America (Texas, Alaska); R. L. More, Sr. collection; display; Mrs. Ann C. More.
- ROB AND BESSIE WELDER WILDLIFE FOUNDATION, *P. O. Drawer 1400, Sinton 79397*. 4,000 sets est.; North America (Texas); R. W. Quillin collection; research; Gene Blacklock, Curator.
- (STEPHEN F. AUSTIN STATE UNIVERSITY, *Dept. of Biology, Nacogdoches 75961*. 280 sets.)
- STRECKER MUSEUM, *Baylor University, Waco 76703*. 1,577 sets; worldwide (Texas); all purpose; Dr. Bryce C. Brown, Mickey Williams, Curator.



## UTAH

MONTE L. BEAN MUSEUM, *Dept of Zoology, 574 WIDB, Brigham Young University, Provo 84602*. 3,003 sets; North America (Utah), Africa; R. G. Bee, A. Boyle, J. D. Daynes, L. Gunther, M. Killpack collections; research; Dr. Clayton M. White, Curator.

## VERMONT

FAIRBANKS MUSEUM, *Main and Prospect Sts., St. Johnsbury 05819*. 1,000 sets est.; North America; research; Howard Reed.

## WASHINGTON

BURKE MEMORIAL WASHINGTON STATE MUSEUM, *University of Washington, Seattle 98195*. 1,383 sets; North America (Northwest U.S.); O. B. Johnson, S. F. Rathbun, J. A. Sinsel, F. Weber collections; research; Dr. Sievert A. Rohwer, Curator.

PUGET SOUND MUSEUM OF NATURAL HISTORY, *University of Puget Sound, Tacoma 98416*. 5,000 sets est.; North America; G. D. Alcorn, J. H. Bowles, J. B. Hurley, E. A. Kitchin, Warburton collections; teaching, research; Dr. Gordon D. Alcorn, Curator.

WALLA WALLA COLLEGE, *Museum of Natural History, Dept. of Biology, College Place 99324*. 325 sets est.; North America; reference; Dr. Joe Galusha.

WHATCOM MUSEUM OF HISTORY AND ART, *121 Prospect St., Bellingham 98225*. 500 sets est.; United States, Canada, Greenland; E. J. Booth collection; presently unused; George E. Thomas, Museum Director.

## WISCONSIN

MILWAUKEE PUBLIC MUSEUM, *Vertebrate Zoology Division, 800 West Wells St., Milwaukee 53233*. 2,345 sets; North America (Wisconsin, Minnesota, Michigan), Africa; B. F. Goss, O. J. Gromme, N. Hollister, L. Kumlien collections; teaching, research; Nathan Kraucunas, Acting Curator of Ornithology, Dr. Max A. Nickerson, Head Curator.

UNIVERSITY OF WISCONSIN-GREEN BAY, *Richter Collection of Natural History, University Museum, E.S.-317, Green Bay 54302*. 11,000 sets est.; North America, Western Europe; E. A. Butler, T. E. McMullen, J. T. Peterson, C. H. Richter collections; research; Dr. H. J. Harris, Acting Curator, Thomas Erdman, Assistant Curator.

UNIVERSITY OF WISCONSIN, *Zoological Museum, 250 N. Mills St., Noland Teaching Bldg., Madison 53706*. 800 sets est.; North America (Wisconsin); P. Conger, A. W. Schorger, L. D. Sumner collections; research; Frank A. Iwen, Curator.

UNIVERSITY OF WISCONSIN-STEVENS POINT, *Museum of Natural History, Stevens Point 54481*. 530 sets; Wisconsin; A. J. Schoenebeck collection; display Vincent A. Heig.

## CANADIAN COLLECTIONS

## ALBERTA

PROVINCIAL MUSEUM OF ALBERTA, *12845-102 Ave., Edmonton T5N 0M6*. 3,500 sets est.; North America (Alberta), misc. foreign; G. Hamm, N. Kondla, H. Pinel collections; research, display; Philip H. R. Stepney, Curator.

## BRITISH COLUMBIA

BRITISH COLUMBIA PROVINCIAL MUSEUM, *Vertebrate Zoology Division, 601 Belleville St., Victoria V8V 1X4*. 2,200 sets est.; North America (British Columbia); E. M. Anderson, W. Burton, R. W. Campbell, J. M. Cooper, F. Crowley, S. J. Darcus, D. L. Frost, C. deB. Green, F. Kermodé, W. S. Maguire (pt.), A. L. Meugens, H. Middleton, J. A. Munro, C. F. Newcombe, G. R. Ryder, E. M. Tait, D. Woolgar collections; research; R. Wayne Campbell, Associate Curator.

COWAN VERTEBRATE MUSEUM, *Dept. of Zoology, University of British Columbia, 2075 Wesbrook Place, Vancouver V6T 1W5*. 1,700 sets; North America (British Columbia), Europe, Asia, Africa; J. Kirkwood, I. McT. Cowan, W. S. Maguire (pt.), H. A. Oliver, K. Racey, J. Wynne collections; research; N. A. Din.

## MANITOBA

MANITOBA MUSEUM OF MAN AND NATURE, *190 Rupert Ave., Winnipeg R3B 0N2*. 325 sets; North America, Europe; S. J. D. Oswald collection; reference; H. W. R. Copland.

## NOVA SCOTIA

NOVA SCOTIA MUSEUM, *1747 Summer St., Halifax B3H 3A6*. 412 sets; North America (Nova Scotia); R. Tufts collection; teaching, display; Mr. F. Scott, Curatorial Assistant.

## ONTARIO

NATIONAL MUSEUM OF NATURAL SCIENCES, *Ornithology Section, National Museum of Canada, Ottawa KIA 0M8*. 4,011 sets; North America (Canada), Palearctic Region, Africa; N. Smith, L. M. Terrill collections; research; Dr. Henri Ouellet, Curator.

ROYAL ONTARIO MUSEUM, *Dept. of Ornithology, 100 Queen's Park, Toronto M5S 2C6*. 12,000 sets est.; North America (Ontario); misc. foreign; H. P. Bingham, O. D. Boggs, O. E. Devitt, J. H. Fleming, P. Harrington, H. Lloyd, W. E. Saunders, F. A. E. Starr collections; research; Dr. Ross D. James, Assistant Curator.

## SASKATCHEWAN

SASKATCHEWAN MUSEUM OF NATURAL HISTORY, *Wascana Park, Regina S4S 0B3*. 417 sets; Saskatchewan; research, display; G. C. Watson, Curator of Collections.