#### Still Wanted: Back Auks

To complete sets of the journal for college, university, and other libraries, the AOU will have a long-continuing need for the following issues:

Vol. 83 (1966) January; Vol. 79 (1962) January; Vol. 70 (1953) January; Vol. 69 (1952) January; Vol. 66 (1949) January, April; Vol. 65 (1948) April; Vol. 64 (1947) All; Vol. 63 (1946) All; Vol. 62 (1945) January; Vol. 57 (1940) January; Vol. 56 (1939) All; Vol. 54 (1937) All; Vol. 53 (1936) April, July, October; Vol. 47 (1930) January.

Many earlier numbers are also needed.

If you have any of the specified issues, or older ones, consult with the Treasurer's office before disposing of them. Complete mimeographed lists have been prepared for the convenience of members who wish to arrange for the eventual transfer of Auks to the Union.

Burt L. Monroe, Sr., Treasurer
The American Ornithologists' Union
P.O. Box 23447
Anchorage, Kentucky 40223

#### Publications of the AOU

All AOU publications are sent postpaid. Order from Burt L. Monroe, Sr., Treasurer AOU, P. O. Box 23447, Anchorage, Kentucky 40223.

The Proceedings of the XIIIth International Ornithological Congress. Two volumes, clothbound, 1,250 pp. \$20.00 per two-volume set.

1964 Directory of AOU Members. Single copies, \$1.25. Two or more copies, \$1.00 each.

Check-list of North American Birds. Fifth Edition, 1957. Cloth-bound, 691 pages. \$8.00 per copy.

Ten-year Index to the Auk 1941-50. Clothbound \$10.00; paper-bound \$8.00.

Other **Ten-year Indexes to the Auk.** Clothbound \$5.00; paperbound, \$4.00. Available as follows: 1876–1900, 1911–20, and 1931–40 in either binding; 1901–1910 and 1921–1930, paperbound only.

SEE FIFTH PAGE OF ADVERTISING SECTION FOR LATEST INFORMATION ABOUT ORNITHOLOGICAL MONOGRAPHS

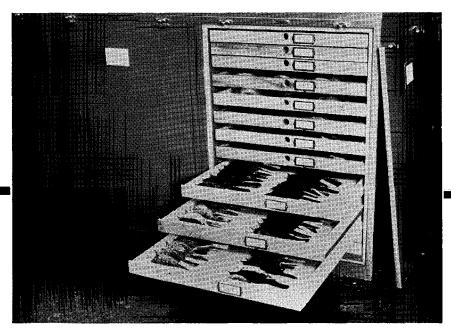
# Tane ZOOLOGY AND ORNITHOLOGY

**SPECIMEN CABINETS** 

Presenting our new

# **ALL-STEEL NATIONAL MUSEUM CASE**

Custom-Sized to Your Requirements!



Plus All the Features that Make Lane Cabinets the Finest for

# PERMANENT SPECIMEN PRESERVATION

- Double Wall Construction
  - Pest-Proof and Air Tight Seal
    - Fumigant Compartment
      - Front and Back Air Tight Seals
        - Specimen Trays available in Metal or Wood

FOR
ILLUSTRATED
BROCHURE,
WRITE

SCIENCE EQUIPMENT CO.
105 Chambers Street New York 7, N. Y.

Lane Science Equipment Co 105 Chambers Street, New	o. Dept. D York 7, N. Y.
Please send complete deta ogy Specimen Cabinets to:	ails on Lane Zoology and Ornithol-
Name	Title
Institution	
Address	
City	State

#### The Species of

#### BIRDS OF SOUTH AMERICA

and Their Distribution

#### by RODOLPHE MEYER DE SCHAUENSEE

This new book is the only one-volume distributional check list of the 2,906 species of

birds in South America. 596 pages, \$10.00.
"The Birds of Colombia," by the same author, with descriptions and illustrations, \$10.00 (both books \$18.50).

Published for The Academy of Natural Sciences of Philadelphia by

#### LIVINGSTON PUBLISHING COMPANY

Narberth, Pennsylvania 19072

Audubon

**FIELD** 



ONE YEAR \$ 5.00 TWO YEARS 9.00 THREE YEARS 13.00

Single copies of April issue— \_ Christmas Bird Count \$3.00\_

Subscribe 7oday!

1130 FIFTH AVENUE • N. Y. 10028

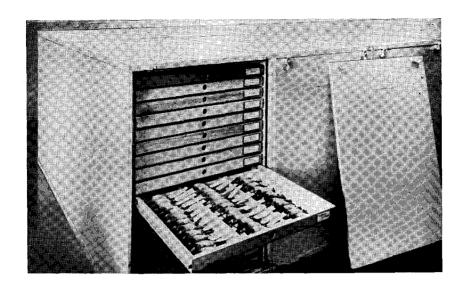
reaches 3,200 ornithologists and 600 institutional libraries.

#### Rates and Space Dimensions for Advertisements

Space	Dimensions	Per year (4 issues)	Per issue
Full page	$4\%6'' \times 7\%''$	\$255	\$80
½ page	$45/16'' \times 35$ %''	\$145	\$45
⅓ page	$4\%6'' \times 2\%''$	\$ 95	\$30
¼ page	$45/16'' \times 1^{13/16''}$	\$ 80	\$25

Publication dates: January, April, July and October.

ADDRESS INQUIRIES AND SPACE ORDERS TO: BURT L. MONROE, SR., TREASURER AOU, P. O. BOX 23447, ANCHORAGE, KENTUCKY 40223.



# You Want Quality in a SPECIMEN CASE

- Double-wall construction with channel reinforcement (You can stack these cases three high)
- Air-tight Buna N seals
- Light weight aluminum doors



Use this coupon to obtain catalog and price list.

STEEL	<b>FIXTURE</b>	MFG.	CO.
612 E.	. 7TH		
TOPEK	A, KANS	AS	

Please send catalog and specimen case price list to:

Name

Title

Address:

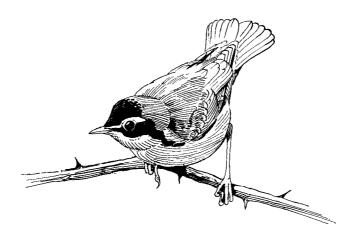
#### ORNITHOLOGICAL MONOGRAPHS

MONOGRAPH No. 1. A Distributional Study of the Birds of British Honduras, by Stephen M. Russell. 195 pp., 2 color plates. Price \$4.50 (\$3.60 to AOU members).

MONOGRAPH No. 2. A Comparative Study of Some Social Communications Patterns in the Pelecaniformes, by Gerard Frederick van Tets. 88 pp., 49 text figures. Price \$2.00 (\$1.60 to AOU members).

MONOGRAPH No. 3. **The Birds of Kentucky**, by Robert M. Mengel. Cloth bound, 581 pp., 4 color plates plus text figures and vignettes. Price \$10.00 (\$8.00 to AOU members).

MONOGRAPH No. 4. Evolution of Some Arctic Gulls (Larus): an Experimental Study of Isolating Mechanisms, by Neal Griffith Smith. 99 pp., 62 text figures. Price \$2.50 (\$2.00 to AOU members).



Like all other AOU publications, *Ornithological Monographs* are shipped prepaid. Make checks payable to "The American Ornithologists' Union." For the convenience of those who wish to maintain complete sets of *Monographs* and to receive new numbers immediately upon issue, standing orders will be accepted.

Order from: Burt L. Monroe, Sr., Treasurer, American Ornithologists' Union, Box 23447, Anchorage, Kentucky 40223

#### REFERENCE WORKS

# A Dictionary Catalogue of the BLACKER-WOOD LIBRARY of ZOOLOGY and ORNITHOLOGY McGill University, Montreal

This outstanding reference library in natural history contains nearly 60,000 volumes, including bound reprints and some 2,000 sets of periodicals. Imprint dates range from a 1472 edition of Pliny's *Natural History* to contemporary publications.

Estimated 135,000 cards reproduced in 9 volumes Price: \$550.00

10% additional charge on orders outside the U.S.

Descriptive material on this title and a complete catalog of publications

are available on request.

G. K. HALL & CO. 70 Lincoln Street, Boston, Mass. 02111

# Pesticides in the Environment and their Effects on Wildlife

Edited by N. W. MOORE M.A. Ph.D.

This new special supplement to *Journal of Applied Ecology* (1966) contains all the papers presented at a NATO Advanced Study Institute which brought together 72 distinguished scientists from various disciplines (including twenty from North America) to discuss topical aspects of pesticide research. It will be of outstanding interest to all concerned with the control of toxic chemicals and the conservation of threatened species. American contributors include P.L.Ames, R.F.Bernard, J.L. Buckley, P.A.Butler, O.B.Cope, J.B.deWitt, J.J.Hickey, E.G.Hunt, J.O. Keith, R.L.Meeks, M.S.Mulla, T.J.Peterle, and R.E.Warner.

Detailed leaflet available free on request

324 pages, 35 illustrations, \$12.00 (Postage \$0.30)

BLACKWELL SCIENTIFIC
PUBLICATIONS LTD
5 Alfred Street · Oxford · England

### THE AUK

## A Quarterly Journal of Ornithology

#### ORGAN OF THE AMERICAN ORNITHOLOGISTS' UNION

THE AUK is edited at the Museum of Natural History, The University of Kansas, Lawrence, Kansas 66044, by the following staff:

> Editor, Robert M. Mengel; Associate Editor, Marion Anne Jenkinson

Editorial Assistants, Jerome A. Jackson, Gary D. Schnell, and John L. Tatschl

The Auk welcomes original articles and short notes, not published elsewhere, containing significant new knowledge about birds, or new interpretation of existing knowledge. Address all articles and notes intended for publication and all books intended for review to the editor.

Suggestions to contributors.—The efficient and economical transmission of knowledge by means of the printed word requires effective participation of author, editor, and printer. In order to facilitate the task of the printer, the editor should receive from authors MSS satisfying the following minimal requirements: MSS should be typewritten, double-spaced (especially tables and "literature cited"), on one side of numbered sheets of standard (8½ × 11 in.) bond paper, with at least one inch margin all around. Tables (which should be unruled) and legends should be typed on separate sheets. Drawings should be in India ink on good board or drafting papers and lettered by lettering guide or the equivalent. Photographs should be clear, of good contrast, on glossy paper. Illustrations should allow (with particular regard to lettering) for reduction to ½ their original dimensions (final width will usually be 4¼ in.).

Scientific and (if any) vernacular names of birds should be given upon first mention thereof and should follow the A.O.U. Check-list (1957) or the appropriate equivalent unless departures are explained and defended.

For bird weights and measurements, use metric units. Other measurements should be in the form usual to the discipline of the paper as practiced in the United States. The 24-hour clock and "continental dating" (e.g., 1 July 1858) are recommended.

Titles should be short and descriptive. MSS should follow the conventions of form observed in articles, general notes, and reviews in The Auk, with minor variations, since 1950. If more than 10 works are cited, references in text should relate to a terminal list of "literature cited" (see Auk, vols. 81 or 82 for form; include no titles not cited) except in general notes, where citation should normally be in text. Avoid footnotes. Where critical matter is cited from longer papers, indicate the pertinent pages, e.g. "(Lack, 1947: 96-97)." Citations in text should be parenthetical, e.g. "(D. Lack. Darwin's finches. Cambridge Univ. Press, 1947.)" or "(Auk, 79: 251, 1962)." Verify all citations from original sources unless impossible, in which case so indicate.

Articles more than 10 pp. long should include a summary that should not exceed 10 per cent of the length of the article.

For abbreviations and minor matters of form see recent issues of The Auk. The Style manual for biological journals (Washington, D. C., Amer. Inst. Biol. Sci. 1960) is generally useful also. In controversial matters of form The Auk frequently relies finally on the dicta of A manual of style (Chicago, Univ. Chicago Press, 1949).

Proofs of all articles and notes will be sent to authors. Reprints of articles, notes, and other items are to be paid for by the author. These must be ordered from Allen Press Inc. on the blanks sent with the proof.

## CONTENTS

Bobwhite frontispiece, facin	g p.
BEHAVIOR OF THE BOBWHITE, COLINUS VIRGINIANUS. Allen W. Stokes	
Physiological responses of the Blue-throated and Rivoli's hummingsing Robert C. Lasiewski and Richard J. Lasiewski	05.
On the Sierra Madre Sparrow, Xenospiza Bailey, of Mexico. Robert V. Dickerman, Allan R. Phillips, and Dwain W. Warner	
MOLT IN THE ADELIE PENGUIN. R. L. Penney	-
Responses of brooding Nighthawks to a disturbance stimulus. Anthony  Gramza	F.
Selection and use of drumming sites by male Ruffed Grouse. Gordon V	v.
General Notes	
Wild Turkeys (Meleagris gallopavo) with supernumerary leg spurs. Lovett E. Williams,	lr. 1
Cock pheasants rout Marsh Hawk. John P. Weigand	1
A specimen of the Golden-cheeked Warbler from Florida. Glen E. Woolfenden	1
Fossil owls from the Hagerman local fauna (Upper Pliocene) of Idaho. Norman L. Fo and Bertram G. Murray, Jr.	wd
Notes on the interspecific behavioral relationships of marsh-nesting passerines. Mary Willson	
Aggressive behavior by a migrating Cape May Warbler. Herbert W. Kale, II	_ 1
Notes on hatching and growth of the Southern Lapwing in Chile. J. K. Greer a Marjorie Greer	md 1
Diving schedules of a Common Loon and a group of Oldsquaws. Paul A. Stewart	1
A 36-year-old wild Herring Gull, Olin Sewall Pettingill, Ir.	1
Observations on embryos of Common Loons, Robert Lister	_ 1
A flight-time integrator for birds. Eugene A. LeFebvre, Richard C. Birkebak, and France D. Dorman	
Another record of active molt in passerine birds. Larry L. Wolf	1
Organisms consumed by various migrating shorebirds. William S. Brooks	_ 1
The incubation period of the Hawaiian stilt. Andrew J. Berger	1
The eggs and nesting ground of the Puna Plover. Gunnar Hoy	_ 1
"Resting" heart and respiratory rates of small birds. R. Alan Lewis	1
Migrant races of western Wood Pewee in Utah. William H. Behle	1
REVIEWS. Edited by Kenneth C. Parkes	1
Special Review: The New Dictionary of Birds and the Proposed World List. Oliver L. Austin, Jr.	
RECENT LITERATURE. Edited by Glen E. Woolfenden	1
Norse and News	