

The Auk

reaches 4,000 ornithologists and
1,000 institutional libraries.

Rates and Space Dimensions for Advertisements in THE AUK

Space	Dimensions	Per Year (4 issues)	Per Issue
Full page	5" x 8"	\$900	\$300
1/2 page	5" x 4"	475	150
1/4 page	5" x 2"	250	75
Back outside cover (full page only)	5" x 8"	—	400

Publication dates: 1 January, 1 April, 1 July, and 1 October.

Closing dates: Eight weeks in advance of publication date.

Printing process: Offset.

Size of half-tone screen: Up to 150.

These are list prices; agencies receive the usual 15 percent commission. This price list supersedes all previous price lists.

Address inquiries and space orders to:

**Kenneth P. Able, Treasurer, The American Ornithologists' Union,
P.O. Box 44, Berne, New York 12023.**

MAILING LIST: The membership and subscriber lists of the American Ornithologists' Union are available as ungummed or pressure sensitive labels. The price is \$0.06 per label (plus materials). A variety of presorted lists is available (e.g., geographic areas, classes of membership, institutional subscribers). Address inquiries and requests to:

**Sandra L. L. Gaunt, Director, Ornithological Societies of North America,
P.O. Box 21160, Columbus, Ohio 43221**

WHERE TO FIND BIRDS IN NEW YORK STATE

The Top 500 Sites



"Great! . . . This is the most detailed and sophisticated state directory yet produced."
—Roger Tory Peterson

WHERE TO FIND BIRDS IN NEW YORK STATE

The Top 500 Sites

Susan Roney Drennan

Foreword by Roger Tory Peterson

This is the first *comprehensive* birding site guide for *all* of NY State, with information on and directions to more than 500 top birding sites and sections on sites and habitats for hawks, rare, pelagic, resident and migratory birds.
672 pages, 106 maps, bibliography, index

Cloth \$38.00

Paper \$18.95

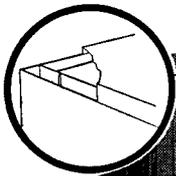
SYRACUSE UNIVERSITY PRESS

Dept. 2A
1011 East Water Street
Syracuse, NY 13210

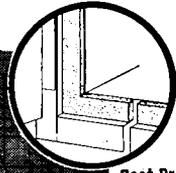
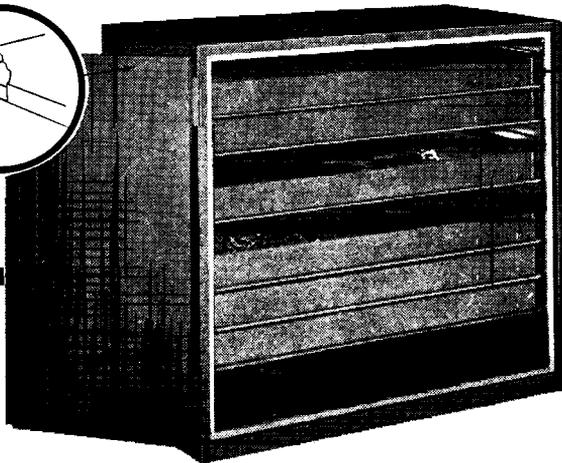


How many years would it take to replace your collection?
 Safe-guard your valuable specimens
PERMANENT SPECIMEN PRESERVATION

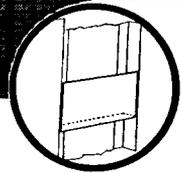
with *Lane* **ZOOLOGY AND ORNITHOLOGY
 SPECIMEN CABINETS**



Double Wall Construction



Pest-Proof and Air Tight Seal



Fumigant Compartment

- Double Wall Construction
- Pest-Proof and Air Tight Seal
- Double Panel Door
 - Lift-Off Safe Type Hinge
 - Fumigant Compartment
 - 3-Point Locking Mechanism
 - Front and Back Air Tight Seals
 - Specimen Trays of Aluminum and Masonite. Lightweight, sturdy and easy to handle.

Skin Case #201 (illustrated)
 Holds large trays for larger specimens.

Skin Case # 202 (not illustrated)
 Divided for half-size trays for smaller specimens.

FOR ILLUSTRATED BROCHURE, WRITE

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

Lane Science Equipment Co. Dept. D
 105 Chambers Street, New York 7, N. Y.

Please send complete details on Lane Zoology and Ornithology Specimen Cabinets to:

Name _____ Title _____

Institution _____

Address _____

City _____ Zone _____ State _____

THE AUK

A Quarterly Journal of Ornithology

PUBLISHED BY THE AMERICAN ORNITHOLOGISTS' UNION

Editor: JOHN A. WIENS, Department of Biology, University of New Mexico, Albuquerque, New Mexico 87131

Assistant to the Editor: JEAN FERNER

Editorial Board: WALTER BOCK, JAMES R. KING, HELMUT C. MUELLER, RICHARD L. ZUSI

Associate Editor: HERBERT W. KALE, II (Periodical Literature)

THE AUK welcomes original reports dealing with the biology of birds, emphasizing the documentation, analysis, and interpretation of laboratory and field studies, theoretical or methodological developments, or reviews of existing information or ideas. Contributions are welcomed from throughout the world, but must be written in English.

SUGGESTIONS TO CONTRIBUTORS. Submit the typewritten original and two copies of the text, tables, and all other material to the editor. Three copies of illustrations should be submitted. *All typewritten material must be double-spaced* on one side of numbered 8½ × 11 inch (21½ × 28 cm) good quality bond paper, with at least 1 inch (2½ cm) margins. Originals typed on erasable, light weight, or mimeo bond will not be considered, but copies may be clear reproductions. Number pages through the Literature Cited. Avoid footnotes. The style of manuscripts should conform to general usage in recent issues. A cover page should contain the full title, a shortened version of the title (not to exceed 35 characters in length) for use as a running head, and your address at the time the research was conducted. Your present address, if different, should be given at the bottom of the first text page. The cover page should include the name and full address of the individual to whom proof is to be sent.

Each article should be preceded by an Abstract not exceeding 5% of the length of the paper. The Abstract should recapitulate the findings of the paper, not describe the work done. Acknowledgments should follow the text and precede the Literature Cited. Scientific and English names of birds always should be given where first mentioned in the text, and should follow the A.O.U. Check-list of North American Birds and supplements or the appropriate equivalent unless departures are explained and defended. SI metric units should be used in all measurements. In general, abbreviations of statistical terms and mensural units should conform with the Council of Biology Editors (CBE) Style Manual, 4th ed. Use the 24-hour clock (0800 and 2030) and "continental" dating (1 July 1971).

Tables, which must not duplicate material in either the text or illustrations, are typewritten (**double-spaced throughout!**) separately from the text. Each table should contain a short but complete heading, and must not contain vertical rulings. *Illustrations* (including labels of coordinates) should be on 8½ × 11 inch (21½ × 28 cm) sheets, and must be mailed flat. The name of the author and the figure number should be penciled on the *back* of each figure. Legends should be typed consecutively (double-spaced) on a separate page. Drawings should be drafted with undiluted india ink, and be large enough to permit ½ to ½ reduction to the size that they will appear in print. Graphs may be drafted on coordinate paper ruled with light *blue* lines; do *not* use coordinate paper ruled with *green* lines. Use mechanical lettering, pressure transfer letters, or calligraphy; typewritten lettering is not acceptable. Lettering should be large enough to be easily readable after 50% reduction of the figure, but not overly large. Lettering style should be uniform among all figures for a manuscript, as should the size of lettering following reduction. Photographs should be glossy prints of good contrast and sharpness, and should be approximately the same size as they will appear in print. Letters and arrows on photographs are best applied by pressure-sensitive materials. The Auk is published in a double-column format; give careful attention to designing your tables and illustrations accordingly.

Literature citations for all manuscripts are listed (double-spaced!) in a Literature Cited section following the text and Acknowledgments. Text citations should include author and year (e.g. Darwin 1858), or, if more than two authors are involved, the first author and year (Jones et al. 1947). If critical matter is cited or quoted directly from longer works, indicate the pertinent pages (e.g. MacArthur 1972: 204). Citations of two or more works on the same topic should be cited in chronological order (e.g. Meanley 1971, Dyer 1975). For abbreviations and forms of titles of serial publications, follow the BIOSIS List of Serials. Consult recent issues of The Auk and the CBE Style Manual for additional details.

A more detailed set of instructions for contributors appeared in the Auk, Vol. 99, No. 1 (January 1982), copies of which are available from the Editor.

ORNITHOLOGICAL MONOGRAPHS

Order from Glen E. Woolfenden, Assistant to the Treasurer A.O.U., Department of Biology, University of South Florida, Tampa, Florida 33620. All orders must be prepaid and include a \$0.50 handling charge. Prices to AOU members are given in parentheses.

- No. 1. *A Distributional Study of the Birds of British Honduras*, by Stephen M. Russell. 1964. \$7.00 (\$5.50).
- No. 2. *A Comparative Study of Some Social Communication Patterns in the Pelecaniformes*, by Gerard Frederick van Tets. 1965. \$3.50 (\$2.50).
- No. 3. *The Birds of Kentucky*, by Robert M. Mengel. 1965. \$15.00 (\$12.50).
- No. 6. *Adaptations for Locomotion and Feeding in the Anhinga and the Double-crested Cormorant*, by Oscar T. Owre. 1967. \$6.00 (\$4.50).
- No. 7. *A Distributional Survey of the Birds of Honduras*, by Burt L. Monroe, Jr. 1968. \$14.00 (\$11.00).
- No. 9. *Mating Systems, Sexual Dimorphism, and the Role of Male North American Passerine Birds in the Nesting Cycle*, by Jared Verner and Mary F. Willson. 1969. \$4.00 (\$3.00).
- No. 10. *The Behavior of Spotted Antbirds*, by Edwin O. Willis. 1972. \$9.00 (\$7.50).
- No. 11. *Behavior, Mimetic Songs and Song Dialects, and Relationships of the Parasitic Indigobirds (Vidua) of Africa*, by Robert B. Payne. 1973. \$12.50 (\$10.00).
- No. 12. *Intra-island Variation in the Mascarene White-eye Zosterops borbonica*, by Frank B. Gill. 1973. \$3.50 (\$2.50).
- No. 13. *Evolutionary Trends in the Neotropical Ovenbirds and Woodhewers*, by Alan Feduccia. 1973. \$3.50 (\$2.50).
- No. 14. *A Symposium on the House Sparrow (Passer domesticus) and European Tree Sparrow (P. montanus) in North America*, S. Charles Kendeigh. 1973. \$6.00 (\$4.50).
- No. 15. *Functional Anatomy and Adaptive Evolution of the Feeding Apparatus in the Hawaiian Honeycreeper Genus Loxops (Drepanididae)*, by Lawrence P. Richards and Walter J. Bock. 1973. \$9.00 (\$7.50).
- No. 16. *The Red-tailed Tropicbird on Kure Atoll*, by Robert R. Fleet. 1974. \$5.50 (\$4.50).
- No. 17. *Comparative Behavior of the American Avocet and the Black-necked Stilt (Recurvirostridae)*, by Robert Bruce Hamilton. 1975. \$7.50 (\$6.00).
- No. 18. *Breeding Biology and Behavior of the Oldsquaw (Clangula hyemalis L.)*, by Robert M. Alison. 1975. \$3.50 (\$2.50).
- No. 19. *Bird Populations of Aspen Forests in Western North America*, by J. A. Douglas Flack. 1976. \$7.50 (\$6.00).
- No. 20. *Sexual Size Dimorphism in Hawks and Owls of North America*, by Noel F. R. Snyder and James W. Wiley. 1976. \$7.00 (\$6.00).
- No. 21. *Social Organization and Behavior of the Acorn Woodpecker in Central Coastal California*, by Michael H. MacRoberts and Barbara R. MacRoberts. 1976. \$7.50 (\$6.00).
- No. 22. *Maintenance Behavior and Communication in the Brown Pelican*, by Ralph W. Schreiber. viii + 78 pp., 38 text figures. 1977. Price \$6.50 (\$5.00 to AOU members).
- No. 23. *Species Relationships in the Avian Genus Aimophila*, by Larry L. Wolf. viii + 220 pp., 17 text figures + 10 plates, long-play phono disc album. 1977. Price \$12.00 (\$10.50 to AOU members).
- No. 24. *Land Bird Communities of Grand Bahama Island: The Structure and Dynamics of an Avifauna*, by John T. Emlen. xi + 129 pp., 38 text figures, appendix. 1977. Price \$9.00 (\$8.00 to AOU members).
- No. 25. *Systematics of Smaller Asian Night Birds Based on Voice*, by Joe T. Marshall. viii + 58 pp., frontispiece, 15 plates, phono disc supplement, appendices I-III. 1978. Price \$7.00 (\$6.00 to AOU members).
- No. 26. *Ecology and Behavior of the Prairie Warbler Dendroica discolor*, by Val Nolan, Jr. xx + 595 pp., color frontispiece, 42 text figures, 8 appendices. 1978. Price \$29.50.
- No. 27. *Ecology and Evolution of Lek Mating Behavior in the Long-tailed Hermit Hummingbird*, by F. Gary Stiles and Larry L. Wolf. viii + 78 pp., 26 text figures. 1979. Price \$8.50 (\$7.50 to AOU members).
- No. 28. *The Foraging Behavior of Mountain Bluebirds with Emphasis on Sexual Foraging Differences*, by Harry W. Power. x + 72 pp., color frontispiece, 12 text figures. 1980. Price \$8.50 (\$7.50 to AOU members).