The Auk

A Quarterly Journal of Ornithology



Vol. 114 No. 4 October 1997

CONTENTS

BROOD DIVISION IS ASSOCIATED WITH FLEDGLING DISPERSION IN THE BLUETHROAT (LUSCINIA S. svecica). Kristin Anthonisen, Christin Krokene, and Jan T. Lifjeld
UPTAKE OF INGESTED CALCIUM DURING EGG PRODUCTION IN THE ZEBRA FINCH (TAENIOPYGIA GUTTATA). S. James Reynolds
EXTREME SEXUAL SIZE DIMORPHISM, SEXUAL SELECTION, AND THE FORAGING ECOLOGY OF MONTEZUMA OROPENDOLAS. Michael S. Webster
LIFETIME REPRODUCTIVE SUCCESS IN BARN OWLS NEAR THE LIMIT OF THE SPECIES' RANGE. Carl D. Marti 5
IS THERE A SEXUAL CONFLICT OVER HATCHING ASYNCHRONY IN AMERICAN ROBINS? Tore Slagsvold5
Association of within-territory vegetation characteristics and fitness compo- nents of California Gnatcatchers. Gerald T. Braden, Robert L. McKernan, and Shawn M. Powell
NEST MORPHOLOGY AND BODY SIZE OF ROSS' GEESE AND LESSER SNOW GEESE. Kevin G. McCracken, Alan D. Afton, and Ray T. Alisauskas
EFFECTS OF INSECTICIDE-INDUCED REDUCTION IN LEPIDOPTERAN LARVAE ON REPRODUCTIVE SUCCESS OF HOODED WARBLERS. Laura R. Nagy and Kimberly G. Smith
ROOSTING BEHAVIOR AND GROUP TERRITORIALITY IN AMERICAN CROWS. Donald F. Caccamise, Lisa M. Reed, Jerzy Romanowski, and Philip C. Stouffer
NEST-SITE SELECTION IN SOUTH POLAR SKUAS: BALANCING NEST SAFETY AND ACCESS TO RE- SOURCES. Julie C. Hagelin and Gary D. Miller
A COMPARISON OF THE BREEDING ECOLOGY OF BIRDS NESTING IN BOXES AND TREE CAVI- TIES. Kathryn L. Purcell, Jared Verner, and Lewis W. Oring
THE RELATIVE IMPORTANCE OF NESTING AND FORAGING SITES IN SELECTION OF BREEDING TER- RITORIES BY TOWNSEND'S WARBLERS. Steven M. Matsuoka, Colleen M. Handel, Daniel D. Roby, and Dana L. Thomas
PARENTAL CALLS AND NESTLING BEHAVIOR IN TREE SWALLOWS. Marty L. Leonard, Nicole Fer- nandez, and Glen Brown

(Continued on outside back cover)

PUBLISHED BY

THE AMERICAN ORNITHOLOGISTS' UNION

Washington, D.C.

The Auk



A Quarterly Journal of Ornithology Published by the American Ornithologists' Union

Editor: THOMAS E. MARTIN, Montana Cooperative Wildlife Research Unit, University of Montana, Missoula, Montana 59812, USA

Managing Editor: JEFFREY S. MARKS Editorial Assistant: ALISON E. H. PERKINS Phone: 406-243-6389 FAX: 406-243-6064 E-mail: auk@selway.umt.edu

Editorial Board

ALLAN J. BAKER, Royal Ontario Museum I. JOSEPH BALL, University of Montana KEITH L. BILDSTEIN, Hawk Mountain Sanctuary KENNETH P. DIAL, University of Montana JOHN M. EADIE, University of California JAN EKMAN, Uppsala University ERICK GREENE, University of Montana RICHARD L. HUTTO, University of Montana KATHY MARTIN, University of British Columbia MARY E. MURPHY, Washington State University LISA J. PETIT, Smithsonian Institution WESLEY W. WEATHERS, University of California ROBERT M. ZINK, University of Minnesota

Book Review Editor: CARL D. MARTI, Department of Zoology, Weber State University, Ogden, Utah 84408, USA (send books to this address)

Membership, Subscription, and Correspondence



Persons interested in birds are invited to join the American Ornithologists' Union. Dues are \$42 per year; student memberships are \$20. Membership is \$20 for persons in all countries *except* the United States, Canada, Israel, Japan, Australia, New Zealand, and the following Western European countries: Iceland, Norway, Sweden, Finland, Denmark, Germany, The Netherlands, Belgium, Luxembourg, France, the United Kingdom, Ireland, Switzerland, Austria, Italy, Spain, and Portugal. All members receive *The Auk*, and North American members receive a bimonthly *Ornithological Newsletter*. Subscription price to institutions is \$70. A Life Membership is \$1,260, paid in one sum or four annual installments of \$315. Gifts of any amount for the Endowment Fund are welcome and should be sent to the Treasurer (see inside back cover). The following major donation categories are recognized: Sponsor (\$1,000), Patron (\$3,000), Benefactor (\$10,000), and Guarantor (\$25,000). The names of Sponsors, Patrons, Benefactors, and Guarantors are inscribed in perpetuity in the AOU records. Gifts to the AOU are tax deductible to the extent permitted by law.

Send requests for information concerning membership, advertising, and back issues to the Treasurer. Information about, or orders for, *Ornithological Monographs* and other special publications should be sent to: Max C. Thompson, Assistant to the Treasurer, Department of Biology, Southwestern College, Winfield, Kansas 67156. Communications also may be routed through the AOU's permanent address: Division of Ornithology, National Museum of Natural History, Washington, D.C. 20560.

Send change of address, payment of dues, subscription requests, and requests for undelivered issues to: Ornithological Societies of North America (OSNA), P.O. Box 1897, Lawrence, Kansas 66044-8897. *The Auk* (ISSN 0004-8038) is published quarterly (January, April, July, and October) by the American Ornithologists' Union, 810 East 10th Street, Lawrence, Kansas 66044-8897. Periodicals postage is paid at Lawrence, Kansas. POSTMASTER: Send address changes to *The Auk*, P.O. Box 1897, Lawrence, Kansas 66044-8897. Copyright 1996 by The American Ornithologists' Union. All material in this journal may be copied for the noncommercial purpose of educational or scientific advancement without the need to seek permission. See inside back cover for instructions to contributors.

This paper meets the requirements of ANSI/NISO Z39.48.1992 (Permanence of Paper).