

Vol. XLV

DECEMBER, 1933

No. 4

THE WILSON BULLETIN



A Magazine of Field Ornithology

Published by the
WILSON ORNITHOLOGICAL CLUB
at
SIOUX CITY, IOWA

Entered as Second-class Mail Matter, July 13, 1916, at the Postoffice at
Sioux City, Iowa, under Act of March 3, 1879.

CONTENTS

WAYS OF THE BLACK SKIMMER	By Ivan R. Tomkins	147-151
A TEN-YEAR-OLD CARDINAL	By Albert F. Ganier	152-154
EXPERIMENTS ON THE DIGESTION OF FOOD BY BIRDS	By James Stevenson	155-167
THE BREEDING BIRDS OF ASHTABULA COUNTY, OHIO	By Lawrence E. Hicks	168-195
EDITORIAL		196
GENERAL NOTES		197-203
ORNITHOLOGICAL LITERATURE		204-212
INDEX		213-222

THE WILSON BULLETIN

Published quarterly, in March, June, September, and December, as the official organ of the Wilson Ornithological Club, at Sioux City, Iowa.

The current issue of the WILSON BULLETIN is printed by the Verstegen Printing Company, Sioux City, Iowa.

The WILSON BULLETIN is sent to all members not in arrears for dues. The subscription price is \$1.50 a year, invariably in advance, in the United States. Outside of the United States the subscription rate is \$1.75. New subscriptions, change of address, and applications for membership should be addressed to the Secretary.

All articles and communications for publication, books and publications for notice, and exchanges, should be addressed to the Editor.

Claims for lost and undelivered copies of the magazine may be addressed to the Editor.

THE WILSON ORNITHOLOGICAL CLUB

Founded December 3, 1888. Named after Alexander Wilson, the first American ornithologist, and called the "Father of American Ornithology."

The officers for the current year are:

President—Prof. J. M. Shaver, George Peabody College for Teachers, Nashville, Tenn.

First Vice-President—Dr. Josselyn Van Tyne, Museum of Zoology, Ann Arbor, Mich.

Second Vice-President—Mr. Alfred M. Bailey, Chicago Academy of Sciences, Chicago, Ill.

Treasurer—Mr. W. M. Rosene, City State Bank, Ogden, Iowa.

Secretary—Mr. Lawrence E. Hicks, Botany Dept., O. S. U., Columbus, Ohio.

Editor—T. C. Stephens, Morningside College, Sioux City, Iowa.

The membership dues are—Sustaining membership, \$5.00; active membership, \$2.50; associate membership, \$1.50 per year.