

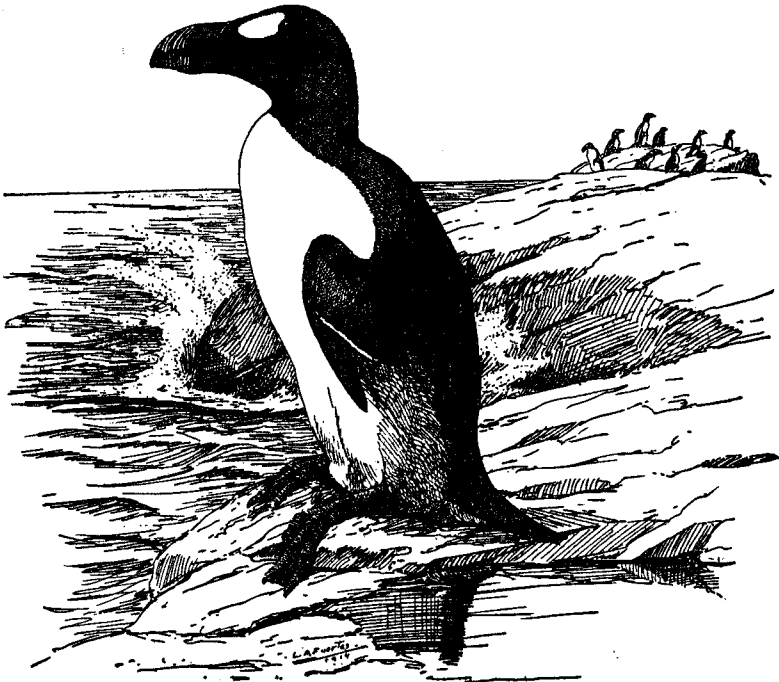
CONTINUATION OF THE  
BULLETIN OF THE NUTTALL ORNITHOLOGICAL CLUB

---

# The Auk

A Quarterly Journal of Ornithology

EDITOR  
JOHN T. ZIMMER



VOLUME 62

---

PUBLISHED BY

**The American Ornithologists' Union**

LANCASTER, PENNA.

1945

**DATES OF ISSUE OF 'THE AUK'**

**VOL. 62, No. 1—January 29, 1945**

**VOL. 62, No. 2—April 16, 1945**

**VOL. 62, No. 3—July 18, 1945**

**VOL. 62, No. 4—October 19, 1945**

# CONTENTS OF VOLUME 62

## NUMBER 1

A STUDY OF THE NORTHERN RAVEN. By <i>W. Bryant Tyrrell</i> (Plates 1-3). . . . .	1
INCUBATION AND NESTLING PERIODS OF CENTRAL AMERICAN BIRDS. By <i>Alexander F. Skutch</i> . . . . .	8
OBSERVATIONS OF THE LOON IN THE CARIBOO PARKLANDS, BRITISH COLUMBIA. By <i>J. A. Munro</i> (Plates 4, 5) . . . . .	38
DISTRIBUTION AND TAXONOMY OF THE BLACK-CAPPED CHICKADEES OF NORTH AMERICA. By <i>Allen J. Duwall</i> . . . . .	49
THE PTERYLOSES OF SOME AUSTRALIAN BIRDS. By <i>Hubert Lyman Clark</i> . . . . .	70
THE EFFECT OF AUDITORY STIMULATION ON THE SPERMATOGENETIC CYCLE OF THE MALE ENGLISH SPARROW. By <i>C. S. Thornton</i> and <i>S. B. Cummings, Jr.</i> , assisted by <i>Frederick Greeley</i> . . . . .	75
THE EUROPEAN STARLING IN GASPÉ. By <i>Stanley C. Ball</i> (Plates 6, 7) . . . . .	79
DO BIRDS CROSS THE GULF OF MEXICO IN SPRING? By <i>George G. Williams</i> . . . . .	80
NOTES ON PANAMANIAN BIRDS. By <i>John W. Aldrich</i> . . . . .	111
NOTES ON PEARL ISLANDS ORNITHOLOGY. By <i>Robert Cushman Murphy</i> . . . . .	114
SEX RATIOS OF DUCKS IN SOUTHWESTERN WASHINGTON. By <i>James R. Beer</i> . . . . .	117
FLYING ABILITY AND THE ANTERIOR INTERMUSCULAR LINE ON THE CORACOID. By <i>Harvey I. Fisher</i> . . . . .	125
SOME CHANGES IN THE BIRD LIFE OF CHURCHILL, MANITOBA. By <i>A. A. Allen</i> . . . . .	129
GENERAL NOTES: Flight speed of the Old-squaw, 135; Prating for Passenger Pigeons, 136; An unusual feeding habit of the Black Vulture, 136; A change of breeding season by Australian gulls, 137; Catesby's tropic-bird, 137; The type of <i>Telespiza</i> <i>ultima</i> Bryan, 139; The correct name of the Fijian Mountain Lorikeet, 139; Unusual "pigeonries" of the domestic pigeon, 140; Aircraft collision with a Goldfinch, 140; Aortic rupture in Field Sparrow due to fright, 141; The Robin does not change its tail spots, 141; Extraordinary fatality to a Blue-winged Teal, 142; The Woodcock at San Antonio, Texas, 142; Great Black-backed Gull kills adult Black Duck, 142; The molt of the Emperor Penguin, 144 (Plate 8); Louisiana Heron in Virginia in December, 145 (Plate 8); A Chimney Swift from Colombia, 145; Duck Hawk nesting in the Great Valley of Virginia, 145; Bra- sher's Warbler in Texas, 146; Yellow-green Vireo nesting in Cameron County, Texas, 146; The Phainopepla near San Antonio, Texas, 146; Arkansas Kingbird in Alabama, 147; Records of the European Widgeon on the east coast of Van- couver Island, British Columbia, 147; Another breeding record of the Ring- necked Duck for the Province of Quebec, Canada, 147; Red-eyed Vireo's incuba- tion, 148; Leach's Petrel in Florida, 148; A Raven's nest near Lexington, Vir- ginia, 148; Wherein lies the economic value of birds?, 149; Vesper Sparrows mated two successive summers, 151; Sitka Crossbills in Massachusetts, 151.	
RECENT LITERATURE . . . . .	152
CORRESPONDENCE: The Bronzed Grackle as a species . . . . .	170
NOTES AND NEWS . . . . .	171
CORRIGENDA. . . . .	171

OBITUARIES: Edward Charles Stuart Baker, 172; Dayton Stoner, 172; George Franklin Clingman, 173; William Cephas Herman, 174; William Anthony Kelker, 174; Lewis Rutherford Morris, 174; Francis Hopkinson Craighill [Smith, <i>errore</i> ], 175; George Whitney White, 175	
THE AMERICAN ORNITHOLOGISTS' UNION AT A GLANCE . . . . .	176

---

NUMBER 2

SUMMER BIRDS OF THE FREMONT NATIONAL FOREST, OREGON. By <i>Thomas H. McAllister, Jr.</i> , and <i>David B. Marshall</i> (Plate 9) . . . . .	177
A STUDY OF THE NESTING ACTIVITIES OF THE AMERICAN REDSTART. By <i>Louis Sturm</i> . . . . .	189
TEMPERATURE AND GROWTH STUDIES OF THE NORTHERN CLIFF SWALLOW. By <i>Dayton Stoner</i> . . . . .	207
INBREEDING AMONG PEN-REARED QUAIL. By <i>Ralph B. Nesiler</i> and <i>Arnold L. Nelson</i> . . . . .	217
FIRST-WINTER PLUMAGES IN THE GALLIFORMES. By <i>George A. Petrides</i> . . . . .	223
LAFRESNAYE. By <i>Thomas E. Penard</i> (Plates 10, 11) . . . . .	227
NOTES ON THE BIRDS OF NORTHERN NEWFOUNDLAND AND LABRADOR. By <i>Evarts G. Loomis</i> . . . . .	234
THE PRESENT STATUS OF THE BLACK-BACKED GULL ON THE COAST OF MAINE. By <i>Alfred O. Gross</i> (Plates 12-15) . . . . .	241
THE HISTORY OF BIRD BANDING. By <i>Harold B. Wood</i> . . . . .	256
A SYSTEMATIC STUDY OF THE MAIN ARTERIES IN THE REGION OF THE HEART. AVES XIV. GRUIFORMES Part 1. By <i>Fred H. Glenny</i> . . . . .	266
REACTION OF THE MOURNING DOVE TO COLORED EGGS. By <i>H. Elliott McClure</i>	270
NOTES ON VERACRUZAN BIRDS. By <i>William B. Davis</i> . . . . .	272
THE HOMING ABILITY OF THE CARRIER PIGEON. By <i>J. A. C. Nicol</i> . . . . .	286
GENERAL NOTES: A new form of <i>Agelaius</i> from Mona Island, Puerto Rico, 299; A pale mutant Mourning Dove, 300; Red-eyed Vireo with vocal defect, 300; Autumnal duelling among Mockingbirds, 301; How many times does a Song Sparrow sing one song?, 302; Cowbirds anting, 302; Fall migration of the Golden Plover at Fort William, Ontario, 303; Wetable water birds, 303; Color change in <i>Ramphocelus flammigerus</i> , 304; Whip-poor-will endurance, 304; The food of the Raven in Virginia, 306; Middle 19th-Century introduction of British Birds to Long Island, N. Y., 306; Cotton Mather's manuscript references to the Passenger Pigeon, 306; Ornithological corrections, 307; Ptilology—a proposed name for the general study of the plumage of birds, 308; Sinaloa Martin nesting in western Mexico, 308; White-fronted Goose in Connecticut, 309; Additional breeding and migration records of the Black-backed Robin, 310; Glossy Ibis on Staten Island, N. Y., 311; A record of the Gannet from the Texas coast, 311; Western Grebe in Michigan, 312; Connecticut records, 312; First Ohio record of the Lark Bunting, 313; <i>Larus ridibundus sibiricus</i> from the Aleutian Islands, 313; The Golden Plover in Nicaragua, 313; Records from Churchill, Manitoba, 314; Blue Grosbeak breeding in Ohio, 314; Yellow-headed Blackbird breeding in Ohio, 314; Hooded Merganser breeding in Ohio, 315; Rose-throated Becard nesting in Cameron County, Texas, 316; A correction, 317.	

RECENT LITERATURE . . . . .	318
CORRESPONDENCE: On 'Hylocichla guttata oromela,' 345; The nomenclature of William Bartram, 345	
OBITUARIES: Hugh Birckhead, 346; Ronald Ward Smith, 346	
NOTES AND NEWS . . . . .	347
THE SIXTY-SECOND STATED MEETING OF THE AMERICAN ORNITHOLOGISTS' UNION. By <i>Lawrence E. Hicks</i> . . . . .	348
ASSOCIATE MEMBERS OF THE A. O. U. ELECTED 1943-1944. . . . .	352
DECEASED MEMBERS, 1943-1944. . . . .	356
REPORT OF THE TREASURER. By <i>Julian K. Potter</i> . . . . .	358
OFFICERS AND COMMITTEES OF THE A. O. U., 1945 . . . . .	ix
DECEASED MEMBERS OF THE A. O. U. SINCE 1940 . . . . .	xi

---

 NUMBER 3

CHIMNEY SWIFTS ROOSTING AT ARDMORE, PENNSYLVANIA. By <i>Horace Groskin</i> (Plates 16, 17). . . . .	361
THE BIRDS OF ROCKY MOUNTAIN NATIONAL PARK, COLORADO. By <i>Fred Mallery Packard</i> . . . . .	371
NOTES ON SWAINSON'S WARBLER IN CENTRAL GEORGIA. By <i>Brooke Meanley</i> (Plate 18). . . . .	395
BARROW'S GOLDEN-EYE IN MASSACHUSETTS. By <i>Ludlow Griscom</i> . . . . .	401
AN EXAMPLE OF BUMBLEFOOT IN THE GREAT HORNED OWL. By <i>Dayton Stoner</i> and <i>Lillian C. Stoner</i> (Plate 19) . . . . .	405
A SYSTEMATIC STUDY OF THE MAIN ARTERIES IN THE REGION OF THE HEART—AVES VI. By <i>Fred H. Glenney</i> . . . . .	408
THE 1944 HURRICANE IN NEW ENGLAND. By <i>Norman P. Hill</i> . . . . .	410
EFFECTS OF A TORNADO ON BIRD LIFE. By <i>H. Elliott McClure</i> (Plate 20). . . . .	414
COMMUNITY SELECTION BY BIRDS ON THE HELDERBERG PLATEAU OF NEW YORK. By <i>S. Charles Kendeigh</i> . . . . .	418
TWENTIETH SUPPLEMENT TO THE AMERICAN ORNITHOLOGISTS' UNION CHECK-LIST OF NORTH AMERICAN BIRDS. . . . .	436
GENERAL NOTES: Nesting habits of the Peruvian Gray Gull (Plate 21), 450; Longevity record of Black-cheeked Weaver, 451; An unusual note of the White-crowned Sparrow, 452; John Bartram on the Passenger Pigeon in Florida 452; The food of the Red-shouldered Hawk in New York State, 452; Food of Ruffed Grouse in southern Michigan, 453; American Rough-legged Hawk found dead at Crawfordsville, Indiana, 454; Food habits of Sanderlings, 454; Blue egg in a Pheasant's nest, 454; Heat insulation in the tarsi and toes of birds, 455; English Sparrow eating salt, 455; The sequence of molt in Purple Grackles, 455; Notes on the Duck Hawk in Ashland County, Ohio, 456; On the type of <i>Cassicus melanurus</i> Cassin, 456; Forster's Tern in North Carolina, 457; Canada Jay in Connecticut, 457; Black-crowned Night Heron in Washington, D. C., 458; Bald Eagles and Woodcocks in central-western Illinois, 458; A further record for the Double-	

crested Cormorant from the Pleistocene of Florida, 459; Yellow Rail nesting in Massachusetts, 459; A Dovekie in Connecticut, 460; Connecticut Warbler in Vermont, 460; *Cypseloides major* in Bolivia, 460; American Merganser in Puerto Rico, 460; Hooded Merganser in St. Croix, Virgin Islands, U. S. A., 461; Sight record of the Western Grebe on Long Island, 461; *Branta c. hutchinsi* on the Atlantic coast, 461; Arkansas Kingbird in southeastern Florida, 462; Chestnut-collared Longspur on Long Island, 463; Interior records of brant, 464; Redhead breeding in New Brunswick, 465; Two unusual records for North Carolina, 465.

RECENT LITERATURE. . . . .	466
NOTES AND NEWS . . . . .	488

---

## NUMBER 4

LIFE HISTORY OF THE BLUE-THROATED GREEN MOTMOT. By <i>Alexander F. Skutch</i> (Plate 22). . . . .	489
UNDER-WATER ACTIONS OF DIVING DUCKS. By <i>Allan Brooks</i> . . . . .	517
BREEDING BIRDS OF THE PIGMY CONIFERS OF EASTERN UTAH. By <i>Ross Hardy</i> (Plates 23, 24). . . . .	523
THE BARBETS. By <i>S. Dillon Ripley</i> . . . . .	542
SOME NEW RECORDS FROM NEWFOUNDLAND. By <i>Harold S. Peters and Thomas D. Burleigh</i> . . . . .	564
THE BREEDING GOLDEN PLOVER OF ALASKA. By <i>Boardman Conover</i> . . . . .	568
A NEW WREN FROM ARIZONA. By <i>Herbert Brandt</i> . . . . .	574
REVIEW OF THE FORMS OF THE BROWN PELICAN. By <i>Alexander Wetmore</i> . . . . .	577
A NEW SWIFT FROM CENTRAL AND SOUTH AMERICA. By <i>John T. Zimmer</i> . . . . .	586
RELATION OF SNOWY OWL MIGRATION TO THE COLLARED LEMMINGS. By <i>Victor E. Shelford</i> . . . . .	592
OBSERVATIONS ON YOUNG TARSOMETATARSI OF THE FOSSIL TURKEY, <i>Parapavo californicus</i> (MILLER). By <i>Hildegarde Howard</i> (Plate 25). . . . .	596
BEHAVIOR OF BIRDS DURING A FLORIDA HURRICANE. By <i>George Miksch Sutton</i> . . . . .	603
NUMERICAL COMPARISON OF RESIDENT BIRDS IN MASSACHUSETTS TODAY AND FORTY YEARS AGO. By <i>Stanley Cobb</i> . . . . .	606
A STUDY OF THE MAIN ARTERIES IN THE NECK AND THORAX OF <i>Oriolus chinensis diffusus</i> . By <i>Fred H. Glenny</i> . . . . .	611
REPORT OF THE A. O. U. COMMITTEE ON BIRD PROTECTION FOR 1944. . . . .	613
GENERAL NOTES.—The Black Duck nesting on the outer coastal islands of Maine (Plate 26), 620; Observations of Red-breasted Nuthatches, 622; Additional unrecorded Passenger Pigeons from New York State, 622; Possible intergrades between the Myrtle and Audubon's Warblers, 623; Hybrid warblers in the Colorado Museum of Natural History, 623; Random distributional notes, 626; Further New York State records for the Great Gray and Richardson's Owls, 629; Rivoli's Hummingbird in Colorado, 630; The Greenland Wheatear in Luce County, Michigan, 631; Black-billed Cuckoo nesting in Oklahoma, 632; Blue-breasted Cyornis in the Malayan Peninsula, 633; Cowbird parasitizes nests of	

Wood Thrush and Indigo Bunting, 633; Three records from western Massachusetts, 633; The Bald Eagle nesting in captivity, 634; Great Black-backed Gull in Monongalia County, West Virginia, 634; American Eider in Delaware, 634; Whistling Swan in Maine, 634; Long-tailed Jaeger and other birds at Island Beach, New Jersey, 635; Eskimo Curlew in Texas, 635; Swallow-tailed Kite in Texas, 636; Blue X Canada Goose hybrid, 636; Hybrid between Snow and Blue Goose in Washington, D. C., 636; Apparent death of a Blue Jay from Toxoplasmosis, 637; White Pelican in New York State, 637; The sleeping habit of the Willow Ptarmigan, 638; First nesting of Forster's Tern in South Carolina, 639; Harlequin Duck on the Texas coast, 639; Canada Goose nesting in Maine, 640; Costa Rican Sparrow near the Canal Zone, 641; English Sparrows anting, 641.

RECENT LITERATURE. . . . . 642

NOTES AND NEWS . . . . . 659

CORRESPONDENCE: Identity of Catesby's Tropic-bird; Bent's 'Life Histories of North American Birds' . . . . . 660

OBITUARIES: Millard Clayton Ernsberger, 661; Gustave Kohn, 661; Robert Statham Williams, 662; A correction—Rev. Francis Hopkinson Craighill, 663

U. S. MEMBERSHIP COMMITTEE, A. O. U. . . . . 664

INDEX TO VOLUME 62. . . . . 665

TITLE-PAGE AND CONTENTS . . . . . i

DATES OF PUBLICATION. . . . . ii

CORRIGENDA. . . . . viii

LIST OF PLATES

Plate	Opposite page
1. TYRRELL: Nest site of Northern Raven . . . . .	1
2, 3. TYRRELL: Northern Raven young . . . . .	4
4, 5. MUNRO: Loon . . . . .	40
6. BALL: European Starling in Gaspé . . . . .	80
7. BALL: European Starling in Gaspé . . . . .	96
8. KIMBALL: Louisiana Heron . . . . .	144
DAVIS: Emperor Penguin . . . . .	144
9. McALLISTER and MARSHALL: Fremont National Forest, Oregon . . . . .	177
10, 11. PENARD: Lafresnaye. . . . .	232
12. GROSS: Great Black-backed Gull. . . . .	244
13, 14. GROSS: Great Black-backed Gull . . . . .	248
15. GROSS: Great Black-backed Gull. . . . .	253
16. GROSIN: Chimney Swift . . . . .	367
17. GROSIN: Chimney Swift . . . . .	370
18. MEANLEY: Swainson's Warbler. . . . .	395
19. STONER and STONER: Great Horned Owl. . . . .	406
20. McCLURE: Tornado in Iowa. . . . .	416
21. GOODALL, PHILIPPI, and JOHNSON: Peruvian Gray Gull . . . . .	450
22. SKUTCH: Young Motmots . . . . .	489
23. HARDY: Book Cliffs, eastern Utah. . . . .	525
24. HARDY: Book Cliffs, eastern Utah. . . . .	533
25. HOWARD: <i>Parapavo californicus</i> . . . . .	602
26. GROSS: Black Duck in Maine . . . . .	620

## CORRIGENDA

## Volume 61

- Page 550, lines 43 and 48: For 'Elliot,' read 'Eliot.'
- Page 581, line 1: For 'Linnaeus,' read '(Batchelder).'
- Page 581, line 12: For '(Batchelder), read 'Linnaeus.'
- Page 608, on map: For 'Opelica,' read 'Opelika.'
- Page 621, line 20: For 'which,' read 'where.'
- Page 647, line 23: For '1928,' read '1828.'
- Plate 23: Upper figure is that of Horned Lark. Cf. vol. 62, p. 317, 1945.

## Volume 62

- Page 142, line 35: For 'moonlight,' read 'sunlight.'
- Page 171, line 11: For 'Bernado,' read 'Bernardo.'
- Page 175, lines 5 and 12: For 'Smith,' read 'Craighill.'
- Page 376, line 20: For '*umbelloides umbelloides*,' read '*umbellus umbelloides*.'
- Page 381, line 23: For '*thyroides*,' read '*thyroideus*.'
- Page 448, line 17: For PRIBOLOF,' read 'PRIBILOF.'
- Page 467, bottom line: For '\$10.00,' read '\$7.00 bound, \$6.00 unbound.'
- Page 470, line 9: credit preceding review to R. M. deSchauensee.



# THE AUK

A Quarterly Journal of Ornithology

ORGAN OF THE AMERICAN ORNITHOLOGISTS' UNION

Manuscripts should be typewritten, double-spaced, if possible. Titles should be brief, within one printed line. Avoid footnotes. References to literature may be inserted in parentheses in the text or listed at the end of the paper; consult recent issues of 'The Auk' for the style of citation used. Long articles should have a brief summary at the end. Mark copy only for *italics*. Avoid Roman numerals and extensive or ruled tables. Line drawings should be in India ink on white paper or cardboard; if reduction will be necessary, details must be correspondingly bold. Captions should be brief; discussions belong in the text. Common and Latin names of North American birds should follow the A. O. U. Check-List except in taxonomic papers giving formal discussions of the changes. Except on request, no proofs of 'General Notes' or short communications will be sent to authors.

Twenty-five reprints of leading articles are furnished authors free of charge. Reprints from 'General Notes,' 'Correspondence,' etc., and those from leading articles in excess of twenty-five must be paid for by the author, and must be ordered from the editor when the manuscript is submitted. Printed covers can be furnished at additional cost.

All articles and communications intended for publication and all books and publications intended for review should be sent to the Editor.

JOHN T. ZIMMER  
*American Museum of Natural History*  
*79th Street and Central Park West*  
*New York 24, N. Y.*

Information relative to advertising, subscriptions, requests for back numbers of 'The Auk,' as well as for other publications of the Union, changes of address and remittances should be sent to the Treasurer and Business Manager. Claims for replacement of missing or defective copies of 'The Auk' will not be honored unless received by the Business Manager within six months of publication of the particular number involved.

FREDERICK C. LINCOLN  
*Fish and Wildlife Service*  
*Department of the Interior*  
*Washington 25, D. C.*

---

## OFFICERS OF THE AMERICAN ORNITHOLOGISTS' UNION

*President:* JAMES L. PETERS, Museum of Comparative Zoölogy, Cambridge, Massachusetts.

*Vice-Presidents:* GEORGE WILLETT, Los Angeles Museum, Los Angeles, California.

HOYES LLOYD, 582 Mariposa Ave., Rockcliffe Park, Ottawa, Canada.

*Secretary:* DR. LAWRENCE E. HICKS, Ohio Wildlife Research Station, Ohio State University, Columbus, Ohio.

*Treasurer and Business Manager:* FREDERICK C. LINCOLN, Fish and Wildlife Service, Dept. of the Interior, Washington 25, D. C.

# WANTED

To complete sets of 'The Auk' in institutional and other libraries, the Treasurer and Business Manager is prepared to purchase the following issues: 1886, January and October; 1887, January; 1888, January and October; 1889, entire volume; 1890, October; 1892, January and October; 1908, July and October; 1911, July; 1924, October; 1928, January; 1929, January and April; 1930, January; 1936, April and October; 1937, January, April, and July; 1938, April, July, and October; and 1940, January.

If you do not intend to keep any of these issues that you may have, the A. O. U. will pay as much as or more than any second-hand dealer and by turning them in to stock you will be aiding college, university and other libraries that desire to maintain complete sets of our journal.

Members who have been elected in recent years and who desire to obtain back numbers of 'The Auk' should file their needs promptly. It is suggested that those ordering series do this by ten-year periods, as 1901-1910, 1911-1920, 1921-1930, etc.

**FREDERICK C. LINCOLN**

*Treasurer and Business Manager*

**Fish and Wildlife Service**

**Department of the Interior**

**Washington 25, D. C.**