

VOLUME 55

PUBLISHED BY **The American Ornithologists' Union** LANCASTER, PA. 1938

CONTENTS OF VOLUME 55

NUMBER 1

Oddly Plumaged Orioles from Western Oklahoma. By George Miksch	
Sutton. (Plate 1)	1
SOCIAL BEHAVIOR OF THE BLACK-CROWNED NIGHT HERON. By G. K. Noble,	
M. Wurm and A. Schmidt. (Plates 2-4)	7
Additional Hosts of the Parasitic Cowbirds. By Herbert Friedmann	41
BIRD REMAINS FROM THE WEST INDIES. By Alexander Wetmore	51
STATUS OF THE "WHITE-EYED" MURRE. By Robert A. Johnson. (Plate 5)	56
NOTES ON THE WATERBIRDS OF THE UPPER TEXAS COAST. By George G.	
Williams	62
MUSCLES OF THE AVIAN HIP AND THIGH. By A. Brazier Howell.	71
NEST PARASITISM OF HAWKS. By William Dunlap Sargent	82
THE SOUTHERN DOVEKIE FLIGHT OF 1936. By Alexander Sprunt, Jr.	85
PHALAROPES OF THE WESTERN LAKE ERIE REGION. By Louis W. Campbell	89
Notes on two Nests of the Eastern Mourning Dove. By Margaret Morse	
Nice	95
'ANTING' BY BIRDS. By W. L. McAtee	98
JAQUES LE MOYNE, FIRST ZOOLOGICAL ARTIST IN AMERICA. By Elsa G. Allen	
A New Race of Wild Turkey. By Robert T. Moore	
Two New Races of North American Birds. By W. E. Clyde Todd	110
 GENERAL NOTES.—Western Grebe in Colorado, 119; Audubon's Shearwater Massachusetts, 119; American Egret along the Upper Hudson River, 2 American Egret in Quebec, 121; American Egret and Anhinga nesting in O homa, 121; Snowy Egret in West Virginia, 122; Yellow-crowned Night He breeding in Northern Illinois, 122; Scoters on Lake Lynn, West Virginia, 1 Hooded Merganser nesting in Connecticut, 123; Food and measurement Goshawks, 123; Yellow Rail at Lexington, Virginia, 124; Black Rail nesting New York, 124; Key West Quail-dove in Puerto Rico, 124; Arkansas Kingj in Adams County, Illinois, 125; Arkansas Kingbird nesting in Michigan, Virginia's Warbler in Idaho, 125; Red-wings feeding on larch saw-fly, Song of the Chipping Sparrow, 125; Shorebirds at a western Maryland Iz 126; Waterbirds at Leetown, West Virginia, 127; Heavy flight of waterfow Lake Lynn, West Virginia, 129; Notes from North Carolina, 130; Additic records for St. Croix, Virgin Islands, 131; Notes from the lower Rio Gra Valley, 132. 	119; kla- eron 122; s of bird 125; 125; ake, l on onal
RECENT LITERATURE	135
CORRESPONDENCE.—The name 'Black-poll Warbler'; Psychological terms	159
Notes and News.	160
OBITUARY.—Lord Rothschild	162

NUMBER 2

IN MEMORIAM: RICHARD C. McGREGOR, ORNITHOLOGIST OF THE PHILIPPINES.	
By Joseph Grinnell. (Plate 7)	163
NESTING OF VIRGINIA'S WARBLER. By Alfred M. Bailey and Robert J. Niedrach.	
(Plate 8)	176

SYSTEMATIC POSITION OF THE GENUS Ciccaba WAGLER. By James L. Peters	179
OWL STUDIES AT ANN ARBOR, MICHIGAN. By Kenneth A. Wilson	187
BIRDS OF CENTRAL LUZON. By Captain L. R. Wolfe, U. S. Army	198
THE SCLEROTIC RING IN NORTH AMERICAN BIRDS. By Elizabeth L. Curtis and	
Robert C. Miller. (Plate 9)	225
SOME GEORGIA RECORDS OF JOHN ABBOT, NATURALIST. By Anna Stowell	
Bassett	
TWO SOUTHERN PETRELS IN THE NORTH PACIFIC. By James Moffitt	255
THE EASTERN COWBIRD VS. THE KENTUCKY WARBLER. By J. Warren Jacobs.	260
VIBRATION FREQUENCIES OF PASSERINE BIRD SONG. By Albert R. Brand	263
TWO NEW BIRDS FROM THE CHISOS MOUNTAINS, TEXAS. By Herbert W.	
Brandt	269
GENERAL NOTES.—Eastern Brown Pelican in North Dakota, 271; Double-cre Cormorant in Delaware, 271; Whistling Swan in New Hampshire, 271; Shov	sted eller

Cormorant in Delaware, 271; Whistling Swan in New Hampshire, 271; Shoveller breeding in northern Alabama, 271; Blue Duck or Mountain Duck, 272; Eclipse in ducks of the southern Hemisphere, 272; Broad-winged Hawk migration in Mississippi, 273; Black Gyrfalcon in Wisconsin, 273; Greater Prairie Chicken in western Pennsylvania?, 274; Purple Gallinule in central Illinois, 274; Hudsonian Curlew, White-faced Glossy Ibis and Black-bellied Plover in Oklahoma, 274; Greater Yellow-legs swimming, 275; American Knot in Iowa, 275; Red-backed Sandpiper at Harrisburg, Pennsylvania, 276; Migration of Godwits at Westport, Washington, 276; Avocet in South Carolina, 277; A Skua in the Caribbean Sea, 277; Glaucous Gull in Illinois, 277; Glaucous-winged Gull in Oklahoma, 277; Longevity of a Black-headed Gull, 278; Bonaparte's Gull a summer resident in northern Indiana and the Chicago Region, 278; Ivory Gull from Oba, Ontario, 279; Montana Horned Owl in Massachusetts, 279; Great Gray Owl from New York State, 279; Albino Chimney Swift, 280; Hummingbird in a Pigeon Hawk's stomach, 280; Say's Phoebe in northern Indiana, 280; An abnormal Blue Jay primary (Plate 10), 281; Hermit Thrush, Swamp and Savannah Sparrows as summer residents in western Maryland, 281; An unfortunate Pine Warbler (Plate 10), 283; Leconte's, Henslow's and Nelson's Sparrows near Toronto, Ontario, 284; Notes from Arkansas, 285; Bird records from northern Coahuila, 286; Four extra-limital records, 287; Audubon copper plates, additions and corrections, 288.

RECENT LITERATURE	289
OBITUARIES.—Frank Stephens, 313; May Rogers Webster, 314; James J. Car. 314; Mary Agnes Tillisch, 315.	roll,
Notes and News	316
THE FIFTY-FIFTH STATED MEETING OF THE AMERICAN ORNITHOLOGISTS' UNION	317
Report of the Committee on Bird Protection	326
By-Laws and Rules of the American Ornithologists' Union	330
Certificate of Incorporation of the American Ornithologists' Union	339
Officers and Committees of the American Ornithologists' Union	3 41
PATRONS, FELLOWS, MEMBERS, AND ASSOCIATES OF THE AMERICAN ORNITHOL- OGISTS' UNION. April. 1938	342

NUMBER 3

EIDER DUCKS OF KENT'S ISLAND. By Alfred O. Gross. (Plates 11-13)	387
RING-NECKED DUCK BREEDING IN EASTERN NORTH AMERICA. By Howard L.	
Mendall	401
NOTES ON MIGRATIONS OF SOUTH AMERICAN BIRDS. By John T. Zimmer	405
INTELLIGENT BEHAVIOR IN THE CLAPPER RAIL. By Olin Sewall Pettingill, Jr.	
(Plates 14–15)	411
VARIATIONS IN THE WEIGHT OF BIRDS. By S. Prentiss Baldwin and S. Charles	
Kendeigh	416
NESTING OF THE TURKEY VULTURE. By W. Bryant Tyrell. (Plates 16-17)	468
UNPUBLISHED MANUSCRIPTS BY COTTON MATHER ON THE PASSENGER PIGEON.	
By Arlie W. Schorger	471
"LEFT-HANDEDNESS" IN PARROTS. By Herbert Friedmann and Malcolm Davis.	478
THE SONG OF KIRTLAND'S WARBLER. By Harold H. Axtell	481
RECENT OBSERVATIONS ON THE GREENLAND WHEATEAR. By John Ripley	
Forbes	492
FRANCIS ORPEN MORRIS: ORNITHOLOGIST AND ANTI-DARWINIST. By Charles	
A. Kofoid	496
Some Findings of the Semple Oklahoma Expedition. By George Miksch	
Sutton	501
Two New Birds from the Kingdom of Siam. By H. G. Deignan	509
WEIGHTS AND WING AREAS IN NORTH AMERICAN BIRDS. By Earl L. Poole	511
GENERAL NOTES.—American Egret in the Hudson River Valley, 518; Ameri	ican

GENERAL NOTES.—American Egret in the Hudson River Valley, 518; American Egret in Saskatchewan, 518; Melanism in the Black-crowned Night Heron, 518; Notes on Colorado Geese, 519; Mexican Turkey Vulture in Southern Florida, 520; Black Vulture following aeroplane, 521; Black and Turkey Vultures in Westchester County, New York, 521; The proportion of sexes in hawks, 522; Eastern Goshawk nesting in central Michigan, 523; Early nesting of the Short-tailed Hawk, 523; Bald Eagle takes live fish, 524; Pigcon Hawk at Cape Hatteras, North Carolina, 525; Additional notes on breeding of Black Pigeon Hawk, 525; Two specimens of the Heath Hen from New Jersey, 527; American Coot in Puerto Rico, 528; Purple Sandpiper in Ohio, 528; Red Phalarope at Oyster Bay, Long Island, 528; Red Phalarope in Michigan, 528; Atlantic Kittiwake in Wisconsin, 529; Unusual perching habit of the Black Tern, 529; Development of remiges in the Atlantic Murre (Plate 18), 529; 'White-eyed' Murres in the British Isles, 530; Early date for the White-crowned Pigeon on the Florida Keys, 531; The last Passenger Pigeon killed in Wisconsin, 531; A diurnal Horned-Owl courtship, 532; Burrowing Owl in the Florida Keys, 535; Arkansas Kingbird in South Carolina, 536; Arkansas Kingbird in Florida, 536; Barn Swallow's nest without mud, 536; Raven's nest in Rockbridge County, Virginia, 537; Mockingbirds in central western Illinois, 537; A second Willow Thrush in New Jersey, 537; Nesting and re-mating of a pair of Bluebirds, 538; Loggerhead Shrikes and snakes, 540; An injured Starling (Plate 18), 540; Berwster's Warbler in the Chicago region, 544; The Western Meadowlark in Ohio, 544; Second record of Brewer's Blackbird in Alabama, 545; Red-wing parasitized by the Cowbird, 545; Hosts of the Cowbird, Molohrus ater obscurus, 546; Nelson's Sparrow in eastern New York, 546; Eastern Snow Bunting in South Carolina in summer, 547; Mourning Warbler nesting and the secure stark in Ohio, 544; Second record of Brewer's Blackbird in Alabama, 545; Red-wing parasitized by t

Thomas and cays, Virgin Islands, 552; Notes from North Dakota, 554; Some birds of the Black Hills of South Dakota and Wyoming, 554; Unusual waterbirds in El Paso County, Colorado, 555; Three noteworthy stragglers in northern Alaska, 555.

RECENT LITERATURE	557
OBITUARIES.—Norman McClintock, 585; other deaths	585
Notes and News	586

NUMBER 4

THE DOWNY YOUNG OF Dendragapus. By James Moffitt. (Plate 19) 589
PARTIAL NIDIFICATION OF THE FLIGHTLESS CORMORANT. By Malcolm Davis.
(Plate 20)
FLORIDA CRANE A RESIDENT OF MISSISSIPPI. By E. A. McIlhenny. (Plates 21, 22)
SEASONAL VARIATIONS IN THE TREE SPARROW. By A. Marguerite Baumgartner.
(Plate 23)
INSTINCTIVE MUSIC. By Sydney E. Ingraham. (Plates 24, 25)
Observations at a Rufous Hummingbird's Nest. By A. Dawes DuBois.
(Plate 26)
TONGUE MUSCULATURE OF PASSERINE BIRDS. By William L. Engels
NUMBER OF FEATHERS AND BODY SIZE IN PASSERINE BIRDS. By F. B. Hutt and
Lelah Ball
A FACIAL ANOMALY IN A PHEASANT. By Robert M. Stabler
A New Eastern Race of the Canada Goose. By W. E. Clyde Todd 661
A New Genus and Species of Mexican Flycatcher. By John T. Zimmer 663
 GENERAL NOTES.—Holboell's Grebe and American Brant in Wisconsin, 666; A new breeding bird for New York State, 666; Recent occurrence of the Flamingo in Puerto Rico, 667; Blue Goose in St. Joachim, Quebec, 667; Blue Goose in New Hampshire, 667; Blue Goose and American Egret in Chester County, Pennsylvania, 668; Gray-breasted Tree Duck in Puerto Rico, 668; Old-squaws taken in gill-nets, 668; Food habits of small falcons in north-central States, 668; Whooping Crane in Louisiana, 670; Sandhill Crane in Kentucky, 670; Yellow Rail at Churchill, Manitoba, 670; American Woodcock in Thunder Bay district, Ontario, 671; Baird's Sandpiper in Texas, 671; Scandinavian Lesser Blackbacked Gull at Key West, Florida, 671; Herring Gulls following the plow, 672; Food of young Laughing Gulls, 672; Nelson's Downy Woodpecker from Colorado, 672; Data from ninety Eastern Crows, 673; Chickadee neurasthenia, 673; A Robin's nest containing eight eggs, 674; Starlings summer in Arkansas, 674; Red Crossbill breeding in the Great Smoky Mountains National Park, 675; Polygamy in the Western Lark Sparrow, 675; Rose-breasted Grosbeak in Colorado, 678; High mortality at the Washington Monument, 679; An orgy of ants, 679.
RECENT LITERATURE
Obituaries

vi

LIST OF PLATES

- 1. Sutton: Oddly plumaged Orioles from Oklahoma.
- 2. Noble, Wurm and Schmidt: Young Black-crowned Night Herons.
- 3. Noble, Wurm and Schmidt: Sexual Behavior of Black-crowned Night Herons.
- 4. Noble, Wurm and Schmidt: Erection of Plumage in Black-crowned Night Herons.
- 5. Johnson: White-eyed and Normal Murres with their Young.
- 6. Allen: Life at Fort Caroline as seen by the French Artist Jaques Le Moyne in 1564.
- 7. Grinnell: Richard C. McGregor.
- 8. Bailey and Niedrach: Nesting of Virginia's Warbler.
- 9. Curtis and Miller: Sclerotic Rings.
- 10. Sutton and Arnold: An Abnormal Blue Jay Primary; Sutton: An Unfortunate Pine Warbler.
- 11. Gross: Nests of Eiders, Herring Gull, and Leach's Petrel.
- 12. Gross: American Eiders.
- 13. Gross: Nest of American Eider.
- 14. Pettingill: Clapper Rail at its nest.
- 15. Pettingill: Clapper Rail replacing an egg.
- 16. Tyrrell: Turkey Vulture's Nest and Young.
- 17. Tyrell: Young Turkey Vultures.
- 18. Johnson: Development of Remiges in the Murre; Smith: Starling with missing upper Mandible.
- 19. Moffitt: Downy Young of Dendragapus.
- 20. Davis: Nidification of the Flightless Cormorant.
- 21, 22. McIlhenny: Florida Crane in Mississippi.
- 23. Baumgartner: Seasonal Variations in Tree Sparrow.
- 24, 25. Ingraham: Graphic Representation of Bird Music.
- 26. DuBois: Rufous Hummingbird at its Nest.

DATES OF ISSUE OF 'THE AUK'

Vol. 54, No. 4—October 8, 1937

Vol. 55, No. 1-January 17, 1938

Vol. 55, No. 2-April 20, 1938

Vol. 55, No. 3-July 12, 1938

THE AUK

A Quarterly Journal of Ornithology ORGAN OF THE AMERICAN ORNITHOLOGISTS' UNION Edited by Dr. Glover M. Allen MUSEUM OF COMPARATIVE ZOOLOGY

CAMBRIDGE, MASS.

To whom all articles and communications intended for publication and all books and publications for review should be sent.

Manuscripts should be typewritten if possible. As an aid in bibliography, titles should be brief. References to literature, if few, may be inserted in parenthesis at the appropriate places in the text, or listed at the end of the paper rather than in footnotes. Roman numerals and extensive tables are to be avoided. Line drawings intended for text illustrations should be in India ink; half-tones cannot be printed in the text since the paper is unsuitable. Longer articles should have a brief summary at the end. Except on request, no proofs of 'General Notes' or short communications will be submitted to authors.

Twenty-five copies of leading articles are furnished to authors free of charge. Additional copies or reprints from 'General Notes,' 'Correspondence,' etc., must be ordered from the editor when the manuscript is submitted.

THE OFFICE OF PUBLICATION

8 WEST KING STREET, LANCASTER, PA.

Subscriptions may be sent to W. L. McAtee, Business Manager, 3200 22d Street N., Arlington, Va. Foreign Subscribers may secure 'The Auk' through H. F. and G. Witherby, 326 High Holborn, London, W. C.

Subscription, \$4.00 a year. Single numbers, one dollar.

Free to Honorary Fellows, and to Fellows, Members, and Associates of the A. O. U., not in arrears for dues.

OFFICERS OF THE AMERICAN ORNITHOLOGISTS' UNION

President: HERBERT FRIEDMANN, U. S. National Museum, Washington, D. C.

Vice-Presidents: JAMES P. CHAPIN, American Museum of Natural History, New York City; JAMES L. PETERS, Museum of Comparative Zoology, Cambridge, Mass.

Secretary: LAWRENCE E. HICKS, Ohio State University, Columbus, Ohio.

Treasurer: W. L. MCATEE, 3200 22d St., N., Arlington, Va.

THE AMERICAN ORNITHOLOGISTS' UNION AT A GLANCE

ORGANIZED-in New York City, Sept. 26, 1883: Incorporated-in Washington, D. C., Nov. 15, 1888.

OBJECTS: "The advancement of its members in Ornithological Science; the publication of a journal of Ornithology and other works relating to that science; the acquisition of a library; and the care and collection of materials relating to the above objects, under the restrictions and regulations established in its By-Laws."

OFFICERS: President, two Vice-Presidents, Secretary, Treasurer, and 9 Councilors. Officers and ex-Presidents are ex-officio members of the Council.

MEMBERS: Associates (unlimited), Members (125), Corresponding Fellows (100), Honorary Fellows (25), Fellows (50), Fellows Emeritus, Patrons. (Total membership in 1938 about 1500.)

DUES: Annual-Associates \$3, Members \$4, Fellows \$5.

Life-Associates \$50, Life-Members \$75, Life-Fellows \$100; Patrons \$1000.

INCOME: From annual dues, sale of publications, life memberships, and contributions.

MEETINGS: Annual-usually in October or November.

PUBLICATIONS: 'The Auk,' a quarterly journal in 55 volumes, with 4 general indexes: 1876-1900, 1901-1910, 1911-1920, 1921-1930. 'Check-list of North American Birds': 1st ed., 1886; 2d ed., 1895; 3d ed., 1910; 4th ed., 1931. 'Code of Nomenclature,' 1886; Revised ed., 1908. (See Auk, '24, 142.)

BREWSTER MEDAL: The income from a fund of \$7250, established in 1919 by the friends of William Brewster, awarded biennially (now annually) to the author of the most important work relating to the birds of the Western Hemisphere published during the preceding six years. Awarded in 1921 to Robert Ridgway, in 1923 to A. C. Bent, in 1925 to Todd and Carriker, in 1927 to John C. Phillips, in 1929 to C. E. Hellmayr, in 1931 to Mrs. Florence M. Bailey, in 1933 to F. M. Chapman, in 1935 to H. L. Stoddard, and in 1937 to R. C. Murphy.

WHERE TO FIND FURTHER INFORMATION

ADDRESSES OF OFFICERS AND MEMBERS-Annual list in April Auk.

THE AUK (LOCATION OF SETS)—Auk, '19, 634; '20, 348; '24, 207; '29, 584. THE AUK IN PUBLIC LIBRARIES—Auk, '30, 609.

BIOGRAPHIES OF DECEASED MEMBERS-Auk, '35, lxviii and current issues.

BREWSTER MEDAL—Auk, '20, 29; '22, 86; '24, 125; '25, 484; '26, 69; '28, 71; '30, 219; '32, 52; '34, 53; '36, 57; '38, 317.

By-Laws: Auk, '27, xi; Auk, '38, 330-340.

DATES OF PUBLICATION OF THE AUE (1912-1936) follow the Index in each volume or the title pages in later volumes.

HISTORY OF THE UNION: Allen, J. A., 'A Seven Years' Retrospect,' 1891; 'The A. O. U.,' Bird-Lore, 1899, 143.

Palmer, T. S., 'The A. O. U.,' Am. Mus. Journal, '18, 473; 'Looking Backward,' Auk, '24, 139; Fifty years' progress of American Ornithology, 1933, 7-27.

MEETINGS: Auk, '24, 143; '30, back cover of October number.

MEMBERSHIP:—Auk, '24, 140; Fellows, '18, 110; Foreign Members, '18, 266; Members, '18, 384; Associates, '18, 513.

PERMANENT FUNDS: Auk, '20, 513.