

The Wilson Bulletin

PUBLISHED BY THE WILSON ORNITHOLOGICAL SOCIETY

VOLUME 92

1980

QUARTERLY



EDITOR: JON C. BARLOW
REVIEW EDITOR: ROBERT RAIKOW
COLOR PLATE EDITOR: WILLIAM A. LUNK
ASSISTANT EDITOR: MARGARET L. MAY
SENIOR EDITORIAL ASSISTANTS: GARY BORTOLOTTI
NANCY FLOOD
EDITORIAL ASSISTANTS: C. DAVISON ANKNEY (No. 3-4)
KEITH L. BILDSTEIN
DOROTHY M. RICHARDSON
JAMES D. RISING
RICHARD R. SNELL (No. 2-4)

- President—George A. Hall, Department of Chemistry, West Virginia University, Morgantown, West Virginia 26506.
- First Vice-President—Abbot S. Gaunt, Department of Zoology, Ohio State University, Columbus, Ohio 43210.
- Second Vice-President—Jerome A. Jackson, Department of Biological Sciences, P.O. Drawer Z, Mississippi State University, Mississippi State, Mississippi 39762.
- Editor—Jon C. Barlow, Department of Ornithology, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, Canada M5S 2C6.
- Secretary—Curtis S. Adkisson, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.
- Treasurer—Robert D. Burns, Department of Biology, Kenyon College, Gambier, Ohio 43022.
- Elected Council Members—Clait E. Braun (term expires 1980); Sidney A. Gauthreaux, Jr. (term expires 1981); Richard C. Banks (term expires 1982).

**DATES OF ISSUE OF VOLUME 92
OF THE WILSON BULLETIN**

- NO. 1—8 APRIL 1980**
NO. 2—18 JULY 1980
NO. 3—7 OCTOBER 1980
NO. 4—26 FEBRUARY 1981

CONTENTS OF VOLUME 92

NUMBER 1

A NEW SPECIES OF METALTAIL HUMMINGBIRD FROM NORTHERN PERU	<i>Gary R. Graves</i>	1
BI-PARENTAL CARE IN KILLDEER: AN ADAPTIVE HYPOTHESIS	<i>Sarah Lenington</i>	8
RESPONSE BY MALE FOX SPARROWS TO BROADCAST OF PARTICULAR CONSPECIFIC SONGS <i>Dennis J. Martin</i>		21
THE THERMOREGULATORY SIGNIFICANCE OF THE WINTER ROOST-SITES SELECTED BY ROBINS IN EASTERN WASHINGTON	<i>Glenn E. Walsberg and James R. King</i>	33
FEEDING ECOLOGY OF THE BLACK-WHISKERED VIREO AND ASSOCIATED GLEANING BIRDS IN JAMAICA	<i>Alexander Cruz</i>	40
EXPERIMENTS IN FEEDING BEHAVIOR OF THE ANNA HUMMINGBIRD	<i>Thomas G. Wheeler</i>	53
THE SELECTION AND USE OF FRUIT BY BIRDS IN AN EASTERN FOREST	<i>John W. Baird</i>	63
TERRITORIAL BEHAVIOR IN A PAIR OF WHITE-THROATED SPARROWS	<i>Frederick E. Wasserman</i>	74
FLOCKING AS A POSSIBLE PREDATOR DEFENSE IN DARK-EYED JUNCOS	<i>Peter Goldman</i>	88
SPATIAL AND TEMPORAL DISTRIBUTION OF RAILS IN COLORADO <i>Herman J. Griese, Ronald A. Ryder and Clait E. Braun</i>		96
GENERAL NOTES		
THE DETERMINATION OF RUNT EGGS IN BIRDS	<i>Walter D. Koenig</i>	103
BREEDING BIOLOGY OF EASTERN PHOEBES IN NORTHERN WISCONSIN ..	<i>Craig A. Faanes</i>	107
VARIATION IN PROMISCUITY AMONG RED-WINGED BLACKBIRDS <i>Thomas A. Roberts and James J. Kennelly</i>		110
NOTES ON PARASITISM BY BRONZED COWBIRDS IN EL SALVADOR <i>Walter A. Thurber and Amanda Villeda</i>		112
OBSERVATIONS OF A WHITE-WINGED CROSSBILL INVASION OF SOUTHEASTERN MANI- TOBA	<i>Spencer G. Sealy, Donald A. Sexton and K. Michael Collins</i>	114
WINTER HUNTING BEHAVIOR OF A SNOWY OWL IN MICHIGAN	<i>Michael L. Chamberlin</i>	116
WARBLERS FEEDING FROM ICE	<i>Martin K. McNicholl and J. Paul Goossen</i>	121
ROUGH-WINGED SWALLOW FEEDING ON FLY LARVAE	<i>Richard A. Wolinski</i>	121
SANDHILL CRANES PREY ON CANADA GOOSE EGGS	<i>Ronald H. Hoffman</i>	122
ADULT BROWN PELICAN ROBS GREAT BLUE HERON OF FISH	<i>Keith L. Bildstein</i>	122
FOOD HABITS OF WHITE PELICANS DURING 1976 AND 1977 AT CHASE LAKE NATIONAL WILDLIFE REFUGE, NORTH DAKOTA	<i>Gary R. Lingle and Norman F. Sloan</i>	123
NOTES ON THE BIRDS OF HONDURAS <i>Fred C. Sibley, George F. Barrowclough and Charles G. Sibley</i>		125
A NEST OF THE RINGED GNATPIBIT (<i>Corythopis torquata</i>) <i>Yoshika Oniki and Edwin O. Willis</i>		126
FIRST BREEDING RECORD OF THE DOUBLE-CRESTED CORMORANT IN VIRGINIA <i>Charles R. Blem, William H. N. Gutzke and Claire Filemyr</i>		127
CORN COB MANIPULATION IN NORTHERN HARRIERS	<i>Keith L. Bildstein</i>	128
ORNITHOLOGICAL LITERATURE		131
ORNITHOLOGICAL NEWS		140
REPORT OF THE CONSERVATION COMMITTEE—1978		142

NUMBER 2

DISPLAYS OF THE MAGELLANIC OYSTERCATCHER (<i>Haematopus leucopodus</i>) Edward H. Miller and Allan J. Baker	149
THE INCIDENCE OF RUNT EGGS IN WOODPECKERS ----- Walter D. Koenig	169
HABITAT STRUCTURE IN RELATION TO POPULATION DENSITY AND TIMING OF BREEDING IN PRAIRIE WARBLERS ----- Michael C. Moore	177
REPRODUCTION AND NEST-SITE SELECTION BY WHITE-TAILED PTARMIGAN IN COLORADO Kenneth M. Giesen, Clait E. Braun and Terry A. May	188
NEST-SITE AND COLONY CHARACTERISTICS OF WADING BIRDS IN SELECTED ATLANTIC COAST COLONIES ----- Donald L. Beaver, Ronald G. Osborn and Thomas W. Custer	200
THE INFLUENCE OF AGE ON THE BREEDING BIOLOGY OF RING-BILLED GULLS Gerard T. Haymes and Hans Blokpoel	221
NICHE RELATIONSHIPS BETWEEN TURQUOISE-BROWED AND BLUE-CROWNED MOTMOTS IN THE YUCATÁN PENINSULA, MEXICO ----- Jorge E. Orejuela	229
GENERAL NOTES	
COURTSHIP FEEDING IN SOME EMBERZINE FINCHES Eileen Zerba and Luis F. Baptista	245
CLEPTOPARASITISM BY RING-BILLED GULLS OF WINTERING WATERFOWL .. Jim W. Grace	246
COMMENSAL FORAGING OF SCISSOR-TAILED FLYCATCHERS WITH RIO GRANDE TURKEYS Bruce W. Baker	248
RED-BELLIED WOODPECKER PREDATION ON NESTLING AMERICAN REDSTARTS Doris J. Watt	249
NEST PREDATION BY THE SPECKLED KING SNAKE Charles F. Facemire and Stephen D. Fretwell	249
SCREECH OWL EATS FISH AND SALAMANDER IN WINTER .. J. D. Rising and F. W. Schueler	250
MARSH HAWKS FEEDING ON WATERFOWL Robert J. Blohm, Fred Van Dyke and Bradley C. Livezey	251
DETRIMENTAL EFFECTS OF CECAL DEFECATION IN WINTER ROOSTING WILLOW PTARMIGAN ----- Howard Parker and Ingolf Hanssen	252
OBSERVATIONS ON THE LIFE HISTORY OF WILLETS ON LONG ISLAND, NEW YORK LeRoy Wilcox	253
UNUSUAL EGG DEPOSITION IN MOURNING DOVES ----- Harmon P. Weeks, Jr.	258
FEMALE SHARP-TAILED GROUSE COPULATES WITH GREATER PRAIRIE CHICKEN IN MINNESOTA ----- W. Daniel Svedarsky and Thomas J. Kalahar	260
CAVITY NESTING OF THE AKEPA ON THE ISLAND OF HAWAII John L. Sincock and J. Michael Scott	261
LONGEVITY OF HAWAIIAN HONEYCREEPERS IN CAPTIVITY ----- Andrew J. Berger	263
INTERSPECIFIC NESTING OF CLAY-COLORED AND FIELD SPARROWS .. Elizabeth W. Brooks	264
CORY'S SHEARWATER OFF THE SOUTH CAROLINA COAST ----- Dennis M. Forsythe	265
THE USE OF MEASUREMENTS IN SEXING COMMON MURRES FROM NEWFOUNDLAND William Threlfall and Shane P. Mahoney	266
ORNITHOLOGICAL LITERATURE -----	269
ORNITHOLOGICAL NEWS -----	272
PROCEEDINGS OF THE SIXTY-FIRST ANNUAL MEETING -----	274

NUMBER 3

GOLDIE'S BIRD OF PARADISE: DISPLAY, NATURAL HISTORY AND TRADITIONAL RELATIONSHIPS OF PEOPLE TO THE BIRD	<i>Mary LeCroy, Alfred Kulupi and W. S. Peckover</i>	289
VOCAL AND TERRITORIAL BEHAVIOR IN THE WHITE-EYED VIREO	<i>Richard A. Bradley</i>	302
DISPLAY BEHAVIOR OF OVENBIRDS (<i>Seiurus aurocapillus</i>) I. NON-SONG VOCALIZATIONS	<i>M. Ross Lein</i>	312
FEEDING OF SECONDARY NESTLINGS BY POLYGYNOUS MALE BOBOLINKS IN OREGON	<i>James F. Wittenberger</i>	330
FORAGING ECOLOGY OF PTARMIGAN AT MEADE RIVER, ALASKA	<i>Joseph B. Williams, Dave Best and Colleen Warford</i>	341
NESTING DENSITY, HABITAT STRUCTURE AND HUMAN DISTURBANCE AS FACTORS IN BLACK GUILLEMOT REPRODUCTION	<i>David Cairns</i>	352
NEST PLACEMENT IN SAGE THRASHERS, SAGE SPARROWS AND BREWER'S SPARROWS	<i>Terrell Rich</i>	362
WINTER HOME RANGES OF 4 CLANS OF RED-COCKADED WOODPECKERS IN THE CAROLINA SANDHILLS	<i>Denise Moreau Sherrill and Verna Miller Case</i>	369
GENERAL NOTES		
GROWTH AND DEVELOPMENT OF MAJOR BODY COMPONENTS IN THE MONK PARAKEET	<i>Donald F. Caccamise</i>	376
THE INFLUENCE OF AGRICULTURE ON AVIAN COMMUNITIES NEAR VILLAVIGENCIO, COLOMBIA	<i>Wallace D. McKay</i>	381
THREE MORE PROBABLE HYBRIDS OF <i>Larus hyperboreus</i> AND <i>L. argentatus</i>	<i>Robert F. Andrle</i>	389
A PAINT-BILLED CRAKE IN VIRGINIA	<i>Charles R. Blem</i>	393
HOUSE SPARROWS KLEPTOPARASITIZE DIGGER WASPS	<i>H. Jane Brockmann</i>	394
RUBY-THROATED HUMMINGBIRDS FEED AT NIGHT WITH THE AIDE OF ARTIFICIAL LIGHT	<i>John W. Goertz, Angela S. Morris and Stephen M. Morris</i>	398
RESPONSE TO NOVEL FOOD IN CAPTIVE, JUVENILE MOCKINGBIRDS	<i>Edward M. Barrows, A. P. Acquavella, P. J. S. Weinstein and R. E. Nosal</i>	399
BULL SNAKE KILLS AND ATTEMPTS TO EAT LONG-EARED OWL NESTLINGS	<i>Steven C. Amstrup and Terrence P. McEaney</i>	402
HERRING GULL PREDATION ON RED-BREADED MERGANSER DUCKLINGS	<i>Barbara M. Braun, Patricia A. Heinz and Gary H. Heinz</i>	403
FACTORS AFFECTING THE INCIDENCE OF DISTRESS CALLS IN PASSERINES	<i>Michael Perrone, Jr.</i>	404
NOVEL RAPE AVOIDANCE IN THE MALLARD	<i>Verner P. Bingman</i>	409
SUNBATHING BEHAVIOR OF THE PIED-BILLED GREBE	<i>Mark R. Ryan and Patricia A. Heagy</i>	409
BACK CARRYING OF YOUNG BY TRUMPETER SWANS	<i>Theodore Bailey, Edward Bangs and Vernon Berns</i>	413
CANVASBACK TOLERANCE OF REDHEAD PARASITISM: AN OBSERVATION AND AN HYPOTHESIS	<i>Thomas D. Nudds</i>	414
EGGLESS CANADA GOOSE RAISES FOSTER BROODS	<i>H. G. Lumsden</i>	415
ORNITHOLOGICAL LITERATURE		416

NUMBER 4

TERRITORIAL BEHAVIOR OF THE SAGE SPARROW: SPATIAL AND RANDOM ASPECTS	<i>Terrell Rich</i>	425
INTERSEXUAL NICHE PARTITIONING IN DOWNY WOODPECKERS	<i>Joseph B. Williams</i>	439
IMPLICATIONS OF JUVENILE HARASSMENT IN PURPLE MARTINS	<i>Charles R. Brown and Erik J. Bitterbaum</i>	452
NESTLING FOODS AND FORAGING PATTERNS IN THE CLAY-COLORED SPARROW	<i>Richard W. Knapton</i>	458
GEOGRAPHIC VARIATION IN THE INSULATIVE QUALITIES OF NESTS OF THE NORTHERN ORIOLE	<i>V. H. Schaefer</i>	466
FALL MIGRATION OF SAW-WHET OWLS AT PRINCE EDWARD POINT, ONTARIO	<i>R. D. Weir, F. Cooke, M. H. Edwards and R. B. Stewart</i>	475
DIRECTIONS AND TIMING OF GREAT BLUE HERON FORAGING FLIGHTS FROM A CALIFORNIA COLONY: IMPLICATIONS FOR SOCIAL FACILITATION OF FOOD FINDING	<i>Helen M. Pratt</i>	489
CHOICE OF NEST BOXES BY COMMON GOLDENEYES IN ONTARIO	<i>Harry G. Lumsden, R. E. Page and M. Gauthier</i>	497
GENERAL NOTES		
FIRST DESCRIPTION OF THE NEST, EGGS AND NESTLING OF THE GUAYAQUIL WOODPECKER (<i>Campephilus [Phloeocastus] guayaquilensis</i>)	<i>Morris D. Williams</i>	506
THE NEST AND TERRITORIALITY OF A FEMALE TYRIAN METALTAIL	<i>Barbara K. Snow</i>	508
MALE ESCORTING AND PROTECTING FEMALES AT THE NEST CAVITY IN MOUNTAIN BLUE-BIRDS	<i>Harry W. Power</i>	509
SOLITARY VIREO NEST USED BY A WESTERN FLYCATCHER	<i>Geoffrey A. Hammerson and Beth P. Lapin</i>	511
BILATERAL WING DISPLAY IN THE SAGE THRASHER	<i>Terrell D. G. Rich</i>	512
A COMPARISON OF AVIAN FORAGING AT FLOWERING TREES IN PANAMA AND NEW GUINEA	<i>Bruce Beehler</i>	513
FORAGING BY YELLOW-BELLIED SAPSUCKERS IN CENTRAL ILLINOIS DURING SPRING MIGRATION	<i>Joseph B. Williams</i>	519
MALLARDS CAPTURE AND EAT AMERICAN TOADS	<i>Nancy S. Mueller</i>	523
DIPPER SWALLOWED BY TROUT	<i>Charles L. Elliott and Steve Peck</i>	524
TEAM-HUNTING AND FOOD SHARING IN PARASITIC JAEGERS	<i>Stephen G. Pruett-Jones</i>	524
INCUBATING WOOD DUCK AND HOODED Merganser HENS KILLED BY BLACK RAT SNAKES	<i>T. T. Fendley</i>	526
SANDHILL CRANES NESTING IN ILLINOIS	<i>Joel Greenberg</i>	527
A MALLARD × MOTTLED DUCK HYBRID	<i>David A. Nelson</i>	527
ORNITHOLOGICAL LITERATURE		530
INDEX		540

THE WILSON BULLETIN

Editor JON C. BARLOW

Department of Ornithology
Royal Ontario Museum
100 Queen's Park
Toronto, Ontario, Canada M5S 2C6

Assistant Editor MARGARET L. MAY

Senior Editorial Assistants GARY BORTOLOTTI
NANCY FLOOD

Editorial Assistants KEITH L. BILDSTEIN RICHARD R. SNELL
DOROTHY M. RICHARDSON JAMES D. RISING
C. DAVISON ANKNEY

Review Editor ROBERT RAIKOW *Color Plate Editor* WILLIAM A. LUNK
Department of Biological Sci- 865 North Wagner Road
ences Ann Arbor, MI 48103
University of Pittsburgh
Pittsburgh, PA 15260

SUGGESTIONS TO AUTHORS

See *Wilson Bulletin*, 87:144, 1975 for more detailed "Suggestions to Authors." Manuscripts intended for publication in *The Wilson Bulletin* should be submitted in triplicate, neatly typewritten, double-spaced, with at least 3 cm margins, and on one side only of good quality white paper. Do not submit xerographic copies that are made on slick, heavy paper. Tables should be typed on separate sheets, and should be narrow and deep rather than wide and shallow. Follow the AOU Check-list (Fifth Edition, 1957) and the 32nd Supplement (*Auk*, 90:411-419, 1973), insofar as scientific names of U.S. and Canadian birds are concerned. Summaries of major papers should be brief but quotable. Where fewer than 5 papers are cited, the citations may be included in the text. All citations in "General Notes" should be included in the text. Follow carefully the style used in this issue in listing the literature cited; otherwise, follow the "CBE Style Manual" (1972, AIBS). Photographs for illustrations should have good contrast and be on gloss paper. Submit prints unmounted and attach to each a brief but adequate legend. Do not write heavily on the backs of photographs. Diagrams and line drawings should be in black ink and their lettering large enough to permit reduction. Original figures or photographs submitted must be smaller than 22 × 28 cm. Alterations in copy after the type has been set must be charged to the author.

NOTICE OF CHANGE OF ADDRESS

If your address changes, notify the Society immediately. Send your complete new address to Ornithological Societies of North America, % Sandra L. L. Gaunt, Box 21160, Columbus, Ohio 43221.

The permanent mailing address of the Wilson Ornithological Society is: c/o The Museum of Zoology, The University of Michigan, Ann Arbor, Michigan 48109. Persons having business with any of the officers may address them at their various addresses given on the back of the front cover, and all matters pertaining to the Bulletin should be sent directly to the Editor.

MEMBERSHIP INQUIRIES

Membership inquiries should be sent to Dr. Robert C. Whitmore, Division of Forestry, West Virginia University, Morgantown, West Virginia 26506.

CONTENTS

TERRITORIAL BEHAVIOR OF THE SAGE SPARROW: SPATIAL AND RANDOM ASPECTS	<i>Terrell Rich</i> 425
INTERSEXUAL NICHE PARTITIONING IN DOWNY WOODPECKERS	<i>Joseph B. Williams</i> 439
IMPLICATIONS OF JUVENILE HARASSMENT IN PURPLE MARTINS	<i>Charles R. Brown and Erik J. Bitterbaum</i> 452
NESTLING FOODS AND FORAGING PATTERNS IN THE CLAY-COLORED SPARROW	<i>Richard W. Knapton</i> 458
GEOGRAPHIC VARIATION IN THE INSULATIVE QUALITIES OF NESTS OF THE NORTHERN ORIOLE	<i>V. H. Schaefer</i> 466
FALL MIGRATION OF SAW-WHET OWLS AT PRINCE EDWARD POINT, ONTARIO	<i>R. D. Weir, F. Cooke, M. H. Edwards and R. B. Stewart</i> 475
DIRECTIONS AND TIMING OF GREAT BLUE HERON FORAGING FLIGHTS FROM A CALIFORNIA COLONY: IMPLICATIONS FOR SOCIAL FACILITATION OF FOOD FINDING	<i>Helen M. Pratt</i> 489
CHOICE OF NEST BOXES BY COMMON GOLDENEYES IN ONTARIO	<i>Harry G. Lumsden, R. E. Page and M. Gauthier</i> 497
GENERAL NOTES	
FIRST DESCRIPTION OF THE NEST, EGGS AND NESTLING OF THE GUAYAQUIL WOODPECKER (<i>Campephilus [Phloeocastus] guayaquilensis</i>)	<i>Morris D. Williams</i> 506
THE NEST AND TERRITORIALITY OF A FEMALE TYRIAN METALTAIL	<i>Barbara K. Snow</i> 508
MALE ESCORTING AND PROTECTING FEMALES AT THE NEST CAVITY IN MOUNTAIN BLUE-BIRDS	<i>Harry W. Power</i> 509
SOLITARY VIREO NEST USED BY A WESTERN FLYCATCHER	<i>Geoffrey A. Hammerson and Beth P. Lapin</i> 511
BILATERAL WING DISPLAY IN THE SAGE THRASHER	<i>Terrell D. G. Rich</i> 512
A COMPARISON OF AVIAN FORAGING AT FLOWERING TREES IN PANAMA AND NEW GUINEA	<i>Bruce Beehler</i> 513
FORAGING BY YELLOW-BELLIED SAPSUCKERS IN CENTRAL ILLINOIS DURING SPRING MIGRATION	<i>Joseph B. Williams</i> 519
MALLARDS CAPTURE AND EAT AMERICAN TOADS	<i>Nancy S. Mueller</i> 523
DIPPER SWALLOWED BY TROUT	<i>Charles L. Elliott and Steve Peck</i> 524
TEAM-HUNTING AND FOOD SHARING IN PARASITIC JAEGER	<i>Stephen G. Pruett-Jones</i> 524
INCUBATING WOOD DUCK AND HOODED MERGANSER HENS KILLED BY BLACK RAT SNAKES	<i>T. T. Fendley</i> 526
SANDHILL CRANES NESTING IN ILLINOIS	<i>Joel Greenberg</i> 527
A MALLARD × MOTTLED DUCK HYBRID	<i>David A. Nelson</i> 527
ORNITHOLOGICAL LITERATURE	530
INDEX	540