

INDEX TO VOLUME 47

This index is for new papers published in this volume of *Bird-Banding* as well as a subject and species index found in papers reviewed in Volume 47. The title and authors index includes not only the articles and general notes but also book and monograph reviews. Items indexed from the Recent Literature section are identified by (r), and specifically, books and monographs by (rev.).

- A.B.A. Checklist: Birds of the Continental United States and Canada, prepared by A.B.A. Checklist Committee, 383(rev)
- Acanthis flammea*, winter distribution, 231-237
- Accipiter gentilis*, age and sex variation, 310-318
- Acoustics, 82(r)
- Acoustic signals, 173(r)
- Acridotheres cristatellus*, preening behavior, 83(r)
- Acrocephalus scirpaceus*, mortality, 281(r)
- , migration, 283(r)
- Activity cycles, 81(r)
- AGE, CRITERIA
- age and sex variation, goshawks, 310-8
- Orange-crowned Warbler, 365
- , LIFE EXPECTANCY
- growth and survival, nestling Brown Pelican, 19-39
- , LONGEVITY
- Eurasian Curlew, 74
- records, 279-81(r)
- Swainson's Warbler, 277
- Whimbrel, 74
- , VARIABILITY
- chicks, 82(r)
- shorebirds, 201-9
- Aggressive behavior, 83(r)
- Aggression, 48-53
- Alcidae, blood cell indices, 170(r)
- Alison, R. M., Breeding Biology and Behavior of the Oldsquaw, 91-2 (rev)
- , Oldsquaw Brood Behavior, 210-3
- Allez, G., see Mueller, H. C., D. D. Berger and-
- Anas discors*, migration, 282(r)
- A. platyrhynchos*, band reports, 287(r)
- , effect of oils, 84(r)
- ANATOMY AND MORPHOLOGY
- blood cell indices, Auk, 170(r)
- caecum, *Coturnix c. japonica*, 86(r)
- mask, Common Yellowthroat, 72-3
- stomach oil, Fulmar, 85(r)
- wing length, Sooty Tern, 37
- Another Pelican Summer, 299(rev)
- Anous stolidus*, effect of Hurricane Agnes, 54-71
- Anseriformes, chemotaxonomy, 172(r)
- , chemical content of plumage, 172(r)
- Anser a. albifrons*, ringing of, in the Netherlands, 76(r)
- A. anser* L., orienting in the triumph ceremony, 80(r)
- A. caerulescens*, mate selection and color preferences, 80(r)
- Antarctic and Sub-Antarctic, 176-7 (rev)
- Anting, 73
- Aramus guarana*, capturing and banding, 164-5
- Arctic travels, 178-9(rev)
- Arenaria interpres*, European-banded, 274
- , trapping and marking, 1-7
- A. melanocephala*, trapping and marking, 1-7
- Arnold, J. A., see Folse, L. J. and-
Asio otus, hearing, 82(r) and 83(r)
- , predation, 375(r)
- Atlas of Eastern Canadian Seabirds, 378-80(rev)
- Auditory characteristic, 83(r)
- Avian hematozoa, 85(r)
- Avocet, American, see *Recurvirostra americana*
- Balph, M. H., and D. F. Balph, Some Factors Influencing Observed Sex Ratios in a Population of Evening Grosbeaks, 340-4
- BANDING, RECOVERIES AND RETURNS
- El Salvador, 1973-4 and 1974-5, 277-8
- Ellesmere Island, NWT, Ruddy Turnstones, 274
- gulls and terns, 76
- Island Beach, N.J., 214-30
- Limpkin, 164-5
- Mourning Dove, 72
- Red-eyed Vireo, 366-7
- return to mainland, nocturnal passerines, 345-58
- ringing and migration, 279(r)
- White-fronted Goose, Netherlands, 76(r)
- , REPORTS
- Galapagos Islands, 75(r)
- mallard, 287(r)
- mortality, 75-6(r)
- ornithological station in Gorki Wschodnie, 368(r)
- Barbour, D. B., see Nesbitt, S. A. and-

- Baylor, L. M., and N. R. Whitney, Jr., Survival Rates of Returned White-winged Juncos, 301-5
 Becker, C. N., and S. M. Byers, Green Heron as a Potential Prey Species of the Broad-winged Hawk, 365-6
BEHAVIOR, MISCELLANEOUS
 affiliation between the sexes, Common Grackle, 376(r)
 aggression, Cattle Egret, 48-53; Zebra Finch, 83(r)
 avian display, 374(r)
 cannibalism, 81(r)
 comfort, 80(r)
 comparative, American Avocet and Black-necked Stilt, 177-8(rev)
 dust bathing, 82(r)
 dusting, Bobwhite Quail, 286(r)
 echolocation, Swiftlet, 286(r)
 eggshell removal, 129-35
 flight reactions, Pigeon, 375(r)
 flocking, Dove, 375(r)
 habituation and flight reaction, duck, 374(r)
 head movements, passerine, 123-35
 imprinting, 374(r)
 movements, Brown Pelican, 101-11
 petrels, 374(r)
 predation, Long-eared and Barn Owl, 375(r)
 preening, Tufted Myna, 83(r)
 radio-telemetry study, 375-6(r)
 sexual behavior, duck, 375(r)
 spatial relationships, duck, 374-5(r)
 —, **PAIRING (COURTSHIP)**
Cosyphyha heuglini, 173(r)
 mate selection and color preferences, Lesser Snow Goose, 80(r)
 Beimborn, D. A., Sex Ratios in the House Sparrow: Sources of Bias, 13-8
 Berger, D. D., see Mueller, H. C. and G. Allez and-
 Biological Fundamentals of Averting Avian Plane Strikes, 296-7(rev)
 Biological turnover of 109Cd, 84(r)
 Biology and Behavior, 80-1(r)
 Birds of the Antarctic and Sub-Antarctic, 176-7(rev)
 Birding from a Tractor Seat, 181(rev)
 Birds of Central Pennsylvania, 298 (rev)
 Birds of New York State, 89-91(rev)
 Birds of South Primor, 297-8(rev)
 Blackbird, European, see *Turdus merula*
 Blackcaps, see *Sylvia atricapilla*
 Blood cell indices, 170(r)
 Bluebird, Eastern, see *Sialia sialis*
 Bock, C. E., and L. W. Lepthien, A Christmas Count Analysis of the Fringillidae, 263-72
 Bohlen H. D., and V. M. Kleen, A Method for Aging Orange-crowned Warblers in Fall, 365
Bonasa umbellus, winter metabolism, 86(r)
 Bonelli's Eagle, see *Hieraeetus fasciatus*
 Brackbill, H., A Brown-headed Cowbird in Postjuvinal Molt at Age of about 38 Days, 275-6
Branta canadensis interior, fatty acids, 85-6(r)
B. canadensis L., orienting in the triumph ceremony, 80(r)
 Breeding Biology and Behavior of the Oldsquaw, 91-2(rev)
 Bridge, D., see Weske, J. S. and-
 Brown Pelican, see *Pelecanus occidentalis*
 Brown, R. G. B., D. N. Nettleship, P. Germain, C. F. Tull, and T. David, Atlas of Eastern Canadian Seabirds, 378-80(rev)
 Browne, M. M., see Leberman, R. C. and-
 —, see Post, W. and-
Bubo bubo, in the German Federal Republic, 84(r)
B. virginianus, predation and breeding, 376-7(r)
Bubulcus ibis, aggression 48-53
 Bull, J., Birds of New York State, 89-91(rev)
 Bundy, G., The Birds of Libya: An Annotated Check-List, 382-3(rev)
 Burton, J. and R. McNeil, Age Determination of Six Species of North American Shorebirds, 201-9
Buteo jamaicensis, predation and breeding, 376-7(r)
B. platypterus, prey, 365-6
B. regalis, rangeland management, 287-8(r)
Butorides virescens, as prey, 365-6
 Byers, S. M., see Becker, C. N. and-
 Byrd, M. A., see Stinson, C. H. and-
 Caecum, energetics, 86(r)
Calidris alpina, trapping and marking, 1-7
C. canutus, trapping and marking, 1-7
C. fuscicollis, age determination, 201-9
C. mauri, trapping and marking, 1-7
C. melanotos, biology and behavior in East Siberian tundra, 80-1(r)
C. minutilla, trapping and marking, 1-7
 —, age determination, 201-9
 —, molt, 359-64
C. pusilla, age determination, 201-9
 Cannibalism 81(r)
Capella gallinago, trapping and marking, 1-7
 Captures, mist-net, 44-7
 Capturing and banding, 164-5
 Carpenter ants, and nesting birds, 161-2
Carpodacus mexicanus, survival, 119-22
Catantrophorus semipalmatus, trapping and marking, 1-7

- Catbird, Gray, see *Dumetella carolinensis*
Cepphus grylle, effect of storms, 54-71
Charadrius semipalmatus, trapping and marking, 1-7
 —, age determination, 201-9
C. vociferus, trapping and marking, 1-7
 Chemotaxonomy, 172(r)
Chen caerulescens, egg weight, 79(r)
Clangula hyemalis, brood behavior, 210-3
 Cody, M. L., Competition and the Structure of Bird Communities, 294-6(rev)
Colaptes auratus, nesting habitats, 40-3
 —, and carpenter ants, 161-2
Colinus virginianus, dust-bathing, 82(r)
 —, dusting, 286(r)
Collocalia, echolocation, 286(r)
Columba livia, orientation, 78 and 79(r)
 Comfort behavior, 80(r)
 Comparative Behavior of the American Avocet and Black-necked Stilt (Recurvirostridae), 177-8(rev)
 Competition and the Structure of Bird Communities, 294-6(rev)
 Conner, R. N., Nesting Habitat for Red-headed Woodpeckers in Southwestern Virginia, 40-3
 —, Interactions Between Nesting Birds and Carpenter Ants, 161-2
 Cook, J. J., and R. W. Schreiber, Wonders of the Pelican World, 298(rev)
Corvus macrorhynchos, behavior and vocalization, 169(r)
Cossypha heuglini, partners, 173(r)
Coturnix c. japonica, sounds of hatching Japanese Quail, 82(r)
 —, caeca energetics, 86(r)
 —, effects of auditory stimulation on vocalization and behavior, 82(r)
 Cowbird, Brown-headed, see *Melospiza ater*
 Crane, see *Grus grus*
 Curlew, Eurasian, see *Numenius arquata*
Cyanocitta cristata, anting, 73
Cyanocorax yncas, social system in Colombia, 373(r)
Cygnus columbianus, breeding in USSR, 172(r)
 Dau, C. P., Capturing and Marking Spectacled Eiders in Alaska, 273
 Davis, T., see Brown, R. G. B., D. N. Nettleship, P. Germain, C. F. Tull and—
 DDT residues, 84(r)
Delichon urbica, incubation patch and weight, 285-6(r)
Dendrocopos villosus, nesting habitats, 40-3
D. pubescens, nesting habitats, 40-3
Dendroica castanea, feeding, 276
 Dispersal, Common Tern, 163-4
 Dove, Mourning, see *Zenaidura macroura*
 Dowitcher, Short-billed, see *Limnodromus griseus*
 Dowitcher, Long-billed, see *Limnodromus scolopaceus*
 Dowitcher spp., see *Limnodromus* sp.
 Duncan, S., Anting by a Scarlet Tanager and Two Blue Jays in Massachusetts, 73
 Dunlin, see *Calidris alpina*
Dumetella carolinensis, anting, 73
 Dust-bathing, 82(r)
 ECOLOGY
 biological turnover of 109Cd, Chipping Sparrow, 84(r)
 DDT residues, 84(r)
 distribution in South Caucasus, Wheatears, 287(r)
 latitude and breeding, 286-7(r)
 predator-prey relations, Great Horned Owl and Red-tailed Hawk, 376-7(r)
 Eider, Spectacled, see *Somateria fischeri*
 Egret, Cattle, see *Bubulcus ibis*
 ENVIRONMENTAL QUALITY
 averting avian plane strikes, 296-7(rev)
 bird hazards to aircraft, 288(r)
 environmental evaluations, 377(r)
 organochlorine residues in small migratory birds, 288(r)
Erithacus rubecula, migration, 283(r)
 —, orientation, 368-9(r) and 370-1(r)
 Family integrity, 81(r)
 Fatty acids, 85-6(r)
 FEATHERS, see PLUMAGE
 Finch, House, see *Carpodacus mexicanus*
 Fisher, J. and J. Flegg, Watching Birds, 94(rev)
 Flicker, Common, see *Colaptes auratus*
 Flight Identification of European Raptors, 181(rev)
 Flugum, C. T., Birding from a Tractor Seat, 181(rev)
 Flycatcher, Pied, see *Muscicapa hypoleuca*
 FOOD AND FEEDING, BEHAVIOR
 behavior development, insectivorous birds, 377-8(r)
 feeding ecology, Varied Tit, 291(r)
 feeding on fruit, Bay-breasted Warbler, 276
 nestling behavior, Pied Flycatcher, 378(r)
 —, DIGESTION
 intestinal absorption, duckling, 84(r)
 —, FOOD
 food finding, 168(r)
 food intake, Red Grouse, 167(r)
 Rock Ptarmigan, 169(r)
 —, PREDATORY BEHAVIOR
 Cattle Egret, 48-53

- Folse, L. J., Jr., and K. A. Arnold, Secondary Sex Characteristics in Roadrunners, 115-8
- Foy, Mrs. Roger W., Recoveries and Foreign Retraps of Birds Banded at Island Beach, N.J., 214-30
- Fregata* spp., breeding biology, 372-3(r)
- Frigatebirds, see *Fregata*
- Fulmarus glacialis*, oiling of raptors, 85(r)
- , ejection of stomach oil, 85(r)
- Galapagos Islands, 88(r) and 75(r)
- Galerida cristata* L., intermediate calls, 173(r)
- Gazetteer, 178(rev)
- Gelochelidon nilotica*, cannibalism, 81(r)
- Geococcyx californianus*, secondary sex characteristics, 115-8
- Geothlypis trichas*, mask, 72-3
- , migration, 319-32
- Germain, P., see Brown, R. G. B., D. N. Nettleship, C. F. Tull, T. Davis and-
- Gerstenberg, R. H., and S. W. Harris, Trapping and Marking Shorebirds at Humboldt Bay, California, 1-7
- Gilbert, D. T., see Nesbitt, S. and-
- Godwit, Marbled, see *Limosa fedoa*
- Golden Eagle Country, 380(rev)
- Goose, Red-breasted, see *Rufibrenta ruficollis*
- Goshawks, see *Accipiter gentilis*
- Grackle, Common see *Quiscalus quiscula*
- Grosbeaks, Evening, see *Hesperiphona vespertina*
- Growth and development, 19-39
- Growth and survival, 54-71
- Grus grus*, migration, 282 and 283(r)
- G. leucogeranus*, in Yakutiya, 167(r)
- Guillemot, Black, see *Cephus grylle*
- Gull, Herring, see *Larus argentatus*
- Gull, Laughing, see *Larus atricilla*
- Hamilton, R. B., Comparative Behavior of the American Avocet and Black-necked Stilt (Recurvirostridae), 177-8(rev)
- Harris, S. W., see Gerstenberg, R. H. and-
- Hatching, 82(r)
- Hawk, Ferruginous, see *Buteo regalis*
- Hawk, Broad-winged, see *Buteo platypterus*
- Hawk, Red-tailed, see *Buteo jamaicensis*
- Heron, Green, see *Butorides virescens*
- Hesperiphona vespertina*, sex ratios, 340-4
- Hieraetus fasciatus*, behavior, 286(r)
- HILL, R. A., Sex Ratio and Sex Determination of Immature Brown-headed Cowbirds, 112-4
- Houston, C. S. (ed.), To The Arctic by Canoe, 1819-1821. The Journal and Paintings of Robert Hood, Midshipman with Franklin, 178-9 (rev)
- History, 382(rev)
- Ilichev, V. D., Location in Birds, 180-1 (rev)
- Jay, Blue, see *Cyanocitta cristata*
- Jay, Green, see *Cyanocorax yncas*
- Junco, Dark-eyed, see *Junco hyemalis*
- Junco hyemalis*, rectrix regrowth, 136-40
- , incomplete prebasic molt, 276-7
- Junco hyemalis aikeni*, survival rates, 301-305
- Junco, White-winged, see *Junco hyemalis aikeni*
- Kadlec, J. A., A Re-evaluation of Mortality Rates in Adult Herring Gulls, 8-12
- Kennard, J. H., A Biennial Rhythm in the Winter Distribution of the Common Redpoll, 231-7
- Killdeer, see *Charadrius vociferus*
- Kinsky, F. C., see Marshall, J., C. J. R. Robertson and-
- Kleen, V. M., see Bohlen, H. D. and-
- Knot, see *Calidris canutus*
- Lagopus l. scoticus*, food intake, 167(r)
- L. mutus*, winterlife and food in N.E. USSR, 169(r)
- Larus argentatus*, mortality rates in adults, 8-12
- , breeding, 284-5(r)
- , hatching and chick mortality, 284(r)
- , seasonal distribution, 141-59
- L. atricilla*, effect of storms, 54-71
- , eggshell removal, 129-35
- L. canus*, ringing, 76(r)
- L. delawarensis*, orientation, 78(r)
- , chick recognition and family integrity, 81(r)
- L. ridibundus*, defensive calls, 81(r)
- Laying, 168(r)
- Leberman, R. C., and M. M. Browne, A Direct Line Recovery of a Red-eyed Vireo, 366-7
- Lepthien, L. W., see Bock, C. E. and-
- Life of birds, 88-9(rev)
- Limnodromus griseus*, trapping and marking, 1-7
- Limnodromus scolopaceus*, trapping and marking, 1-7
- Limnodromus* spp., trapping and marking, 1-7
- Limosa fedoa*, trapping and marking, 1-7
- Lipid deposition, 171(r)
- Lobipes lobatus*, trapping and marking, 1-7
- Location in Birds, 180-1(rev)
- Longevity, 74 and 75
- Lymothlypis swainsonii*, age record, 277
- Magnetic compass, 78-9(r)

- , stimuli, 170(r)
 Mallard, see *Anas platyrhynchos*
Manacus m. trinitatis, sexual behavior, 167(r)
 Manitoba, 179-80(rev)
 Marshall, J., F. C. Kinsky, and C. J. R. Robertson, The Fiat Book of Common Birds in New Zealand. I. Town, pasture and freshwater birds, 383(rev)
 Martin, House, see *Delichon urbica*
 Mate selection, 80(r)
 McNeil, R., see Burton, J. and-
MEASUREMENTS
 wing length, Sooty Tern, 37
Melanerpes erythrocephalus, nesting habitat in southwestern Virginia, 40-3
Mergus merganser, nestboxes, 80(r)
METABOLISM, see **PHYSIOLOGY**
 Mexican bird, 175-6(rev)
 Midge ratio, 84-5(r)
MIGRATION (see also **ORIENTATION** and **HOMING**)
 length of stay and weights, shorebirds, 333-9
 mist net captures for quantification, 44-7
 —, **RADAR STUDY**
 radar screen pattern, 76(r)
 radar study, Crane, 282(r)
 —, **REGIONAL**
 eastward, Blue-winged Teal, 282(r)
 —, **SPECIES**
 Common Yellowthroat, 319-32
 European Warbler, 77(r)
 night migrating, passerines, 283(r)
 over sea and land, crane, 283(r)
 patterns and localities, American Osprey, 282(r)
 Milby, M. M., and M. E. Wright, Survival of House Sparrows and House Finches in Kern County, California, 119-22
 Mimicry, 169(r)
Molothrus ater, sex ratio and determination, 112-4
 —, postjuvenile molt, 275-6
 Montevecchi, W. A., Eggshell Removal by Laughing Gulls, 129-35
 Moore, F. R., The Dynamics of Seasonal Distribution of Great Lakes Herring Gulls, 141-59
 Morrison, R. I. G., Further Records, Including the First Double-journey Recovery of European Banded Ruddy Turnstones on Ellesmere Island, N.W.T., 274
MORTALITY
 Herring Gull, 8-12
 in banding, 75-6(r)
 Reed Warbler, 281(r)
Motacilla f. flava, prenuptial molt, 172(r)
 Motor responses, 86(r)
 Movements, 101-11
 Mueller, H. C., and N. S. Mueller, Bay-breasted Warblers Feeding on Fruit: Interspecific Social Facilitation?, 276
 Mueller, H. C., D. D. Berger, and G. Allez, Age and Sex Variation in the Size of Goshawks, 310-8
 Mumme, R. L., see Woolfenden, G. E. and-
 Murray, B. G., Jr., The Return to the Mainland of some Nocturnal Passerine Migrants over the Sea, 345-58
Muscicapa hypoleuca, food, 377-8(r)
 Naturalist's Color Guide: Part I, The color guide; Part II, the color guide supplement, 292-4(rev)
 Nesbitt, S. A., D. T. Gilbert, and D. B. Barbour, Capturing and Banding Limpkins in Florida, 164-5
NESTING AND REPRODUCTION, BREEDING BIOLOGY
 Coastal Virginia, Osprey, 258-62
 Frigatebirds, 372-3(r)
 Lapwing, 284(r)
 of the Oldsquaw, 91-2(r)
 reproductive cycle, Barbary Dove, 83(r)
 social system, Green Jay, 373(r)
 Ussurian Crane, 373(r)
 —, **EGGS**
 Hen, 170(r)
 production, Chicken, 171(r)
 shell porosity, Common Eider, 171-172(r)
 shell removal, Laughing Gull, 129-35
 weight, Snow Goose, 79(r)
 —, **INCUBATION, BROODING**
 brood behavior, Oldsquaw, 210-3
 brood size, Blue Tit and House Sparrow, 87(r)
 changes, House Martin, 285-6(r)
 —, **MISCELLANEOUS**
 age, egg size, and breeding, Herring Gull, 284-5(r)
 asynchronous hatching and chick mortality, Herring Gull, 284(r)
 hole-nesting, passerine, 287(r)
 nesting, Solitary Snipe, 373(r)
 nesting habitat, 40-3
 nest building, Ring Dove, 83(r)
 nest boxes, Goosander, 80(r)
 nests occupied by wasps, 373(r)
 parents and their young, 381-2(rev)
 —, **BEHAVIOR**
 environmental factors, tern chick, 285(r)
 interactions with carpenter ants, 161-2
 laying, Tit, 168(r)
 triple nesting, Brown Accentor, 167(r)

- Nettlehip, D. N., see Brown, R. G. B.,
 P. Germain, C. F. Tull, T. Davis
 and-
 New Birds, 87(r)
 New York State, birds, 89-91(rev)
 Nisbet, I. C. T., Early Stages in Post-
 fledging Dispersal of Common
 Terns, 163-4
 Noddy, Brown, see *Anous stolidus*
Numenius phaeopus, longevity, 74
N. arquata, longevity, 74
 Observations, Bluebirds, 160-1
Oenanthe, Northern Palearctic, 298
 (rev)
 —, South Caucasus, 287(r)
O. hispanica, evolutionary and tax-
 onomic relations, 291(r)
O. pleschanka, evolutionary and tax-
 onomic relations, 291(r)
 Oiled waterfowl, 169(r)
 Oiling raptors, 85(r)
 Oldsquaw, see *Clangula hyemalis*
 Olendorff, R. R., Golden Eagle Coun-
 try, 380(rev)
- ORIENTATION AND HOMING**
 chicks, gull 78(r)
 inertial navigation, 281(r)
 location in birds, owls, 180-1(rev)
 magnetic compass, Garden Warblers,
 78-9(r)
 navigation, Pigeon, 369-70(r)
 night migrating passerine, 370-1(r)
 night migration, 368-9(r)
 pigeons, 78(r), 79(r), 166(r), 371-2(r)
 position finding, 166(r)
 sky sectors, 166(r)
 triumph ceremony, goose, 80(r)
 Warbler, European, 77(r)
- Ornithological Gazetteer of Bolivia,
 178(rev)
 Ornithology from Aristotle to the
 Present, 382(rev)
 Osprey, see *Pandion haliaetus*
Otus hartlaubi, of Sao Tome Island,
 291(r)
 Owllet, see *Otus hartlaubi*
 Owls, 92-3(rev)
 Owl, Barn, see *Tyto alba*
 —, Long-eared, see *Asio otus*
 —, Great Horned, see *Bubo virgini-
 anus*
- PALEONTOLOGY**
 Archosaurs and birds, 290-1(r)
Pandion haliaetus, populations in
 Coastal Virginia, 258-62
 —, migration, 282(r)
 Panov, E., Birds of South Primor,
 297-8(rev)
 —, The Wheatears of Northern Pal-
 earctic, 298(rev)
Parus caeruleus, brood size, 87(r)
P. major, populations, 284
P. varius, feeding, 291(r)
- PARASITES AND DISEASE**
 avian hematozoa, 85(r)
 Midges ratio, 84-5(r)
 Parent Birds and Their Young, 381-2
 (rev)
Passer domesticus, brood size, 87(r)
 —, feather regrowth, 139
P. domesticus, sex ratios, 13-8
 —, survival in California, 119-22
 Paynter, R. A., Jr., M. A. Taylor, Jr.,
 and B. Winter, Ornithological
 Gazetteer of Bolivia, 178(rev)
Pelecanus occidentalis, movements of
 color marked, 101-11
 —, growth and development, 19-39
 Pelican, Brown, see *Pelecanus oc-
 cidentalis*
 Pettingill, O. S., Jr., Another Penguin
 Summer, 299(rev)
 Phalarope, Northern, see *Lobipes loba-
 tus*
 Phalarope, Red, see *Phalaropus ful-
 icarius*
Phalaropus fulicarius, trapping and
 marking, 1-7
Phoenicurus phoenicurus, migration,
 283(r)
 —, orientation, 370-1(r)
 Phoebe, Eastern, see *Sayornis phoebe*
Phylloscopus trochilus, juveniles, 171(r)
- PHYSIOLOGY**
 caloric intake, Double-crested Cor-
 morants, 288-9(r)
 circulatory physiology, montane and
 lowland birds, 288(r)
 fattening, Garden Warbler, 290(r)
 intestinal absorption, duckling, 84(r)
 lipid deposition, Willow Warbler,
 171(r)
 motor responses, duck, 86(r)
 Pecten oculi, chicken, 289(r)
 resting metabolic rate, European
 Blackbird, 289(r)
 sugar concentrations, hummingbird,
 289(r)
 weights and fat deposition, Starling,
 289(r)
 winter metabolism, Ruffed Grouse,
 86(r)
- Pinkowski, B. C., Further Observa-
 tions on a Family of Eastern Blue-
 birds, 160-1
Piranga olivacea, anting, 73
 Plover, Black-bellied, see *Pluvialis
 squatarola*
 Plover, Semipalmated, see *Charadrius
 semipalmatus*
- PLUMAGES AND MOLT**
 chemical content, waterfowl, 172(r)
 delayed molt, Pine Siskin, 306-9
 feather regrowth, House Sparrow,
 139
 molt breeding overlap, tropical birds,
 290(r)
 molt of flight and tail feathers,
 Least Sandpiper, 359-64

- prebasic molt, Dark-eyed Junco, 276-7
 prenuptial molt, Yellow Wagtail, 172(r)
 postjuvenile molt, Brown-headed Cowbird, 275-6
 rectrix regrowth, Dark-eyed Junco, 136-40
 variations, Common Yellowthroat, 72-3
Pluvialis squatarola, trapping and marking, 1-7
- POPULATIONS, MOVEMENTS, DYNAMICS**
 bird communities, 294-6 (rev)
 Fringillidae, 263-72
 movements, Cavity-hunting Starling and Eastern Bluebird, 274-5
 Pelican, Brown, 101-11
 population trends in NY state, 238-57
 seasonal distribution, Herring Gull, 141-59
 sex ratios, Evening Grosbeaks, 340-44
 structure, Great Tit, 284(r)
 territory stability, passerine, 283-4(r)
 Porter, R. F., I. Willis, S. Christensen, and B. P. Nielsen, Flight Identification of European Raptors, 181 (rev)
 Portraits of Mexican Birds, 175-6(rev)
 Post, W., and M. M. Browne, Length of Stay and Weights of Inland Migrating Shorebirds, 333-9
 Predation, 365
Prunella fulvescens, triple nesting, 167(r)
Pygoscelis adeliae, comfort behavior, 80(r)
 Quail, Bobwhite, see *Colinus virginianus*
Quiscalus quiscula, anting, 73
 Ralph, C. J., Standardization of Mist Net Captures for Quantification of Avian Migration, 44-7
Recurvirostra americana, trapping and marking, 1-7
 Redpoll, Common, see *Acanthis flammea*
 Redstart, see *Phoenicurus phoenicurus* reintroduction, 84(r)
 reproductive cycle, 83(r)
- RESEARCH METHODS, CAPTURE TECHNIQUES**
 mist-nets, 44-7
 restraining live birds, 165
- , **MARKING**
 capturing and marking, Spectacled Eider, 273
 trapping and marking, shorebirds, 1-7
 Ricklefs, R. E., see White, S. C. and-Roadrunner, see *Geococcyx californianus*
 Robertson, C. J., see Marshall J., F. C. Kinsky and-
 Robertson, W. B., Jr., see White, S. C. and-
 Robertson, W. B., Jr., see Woolfenden, G. E. and-
 Robin, American, see *Turdus migratorius*
 Robin, European, see *Erithacus rubecula*
Rufibrenta ruficollis, distribution, 377(r) running, 86-7(r)
 Sandpiper, Least, see *Calidris minutilla*
 —, Semipalmated, see *C. pusilla*
 —, Western, see *C. mauri*
 —, White-rumped, see *C. fuscicollis*
 Sapsucker, Yellow-bellied, see *Sphyrapicus varius*
Sayornis phoebe, and carpenter ants, 161-2
 Scarce Migrant Birds in Britain and Ireland, 296(rev)
 Schreiber, R. W., Growth and Development of Nestling Brown Pelicans, 19-39
 —, Movements of Color Marked Brown Pelicans, 101-11
 —, see Cook, J. J. and-
 Schreiber, E. F., A New Method for Restraining Live Birds, 165
 —, and R. W., Wonders of Sea Gulls, 298-9(rev)
 seasonal distribution, 141-59
 secondary sex characteristics, 115-8
 sexual behavior, 82(r) and 167(r)
 sex ratios, 13-8
 sex ratio and determination, 112-3
 Sharrock, J. T. R., Scarce Migrant Birds in Britain and Ireland, 296 (rev)
 Shorebirds, migration and weights, 333-9
Sialia sialis, movements, 274-5
 —, family observations, 160-1
 Siskin, Pine, *Spinus pinus*
 Skeel, M., Longevity Record for the Whimbrel, 74
 Skutch, A. F., Parent Birds and Their Young, 381-2(rev)
 Smithe, F. B., Naturalist's Color Guide, Part I, The color guide; Part II, the color guide supplement, 292-4(rev)
 Snipe, Common, see *Capella gallinago*
Somateria fischeri, capturing and marking, 273
S. mollissima, egg shell porosity, 171-2 (r)
 sounds, 166(r)
 Spaans, A. L., Molt of Flight and Tail Feathers of the Least Sandpiper in Surinam, South America, 359-64
 Sparrow, House, see *Passer domesticus*

- Sphyrapicus varius*, and carpenter ants, 161-2
- Spinus pinus*, delayed molt, 306-9
- Spizella passerina*, biological turnover of 109Cd, 84(r)
- Starling, see *Sturnus vulgaris*
- Sterna albifrons*, effect of storms, 54-71
- S. dougallii*, effect of storms, 54-71
- S. fuscata*, wing length as growth indicator, 37
- , effect of storms, 54-71
- S. hirundo*, growth, 19 and 285(r)
- , effect of storms, 54-71
- , acoustic signals in behavior, 173(r)
- , postfledging dispersal, 163-4
- S. sandwicensis*, growth, 285(r)
- Stewart, P. A., Movements of Cavity-hunting Starlings and Eastern Bluebirds, 274-5
- Streptopelia risoria*, nest-building, 83(r)
- , reproductive cycle, 83(r)
- Stresemann, E., Ornithology from Aristotle to the Present, 382(rev)
- Stinson, C. H., and M. A. Byrd, A Comparison of Past and Present Osprey Breeding Populations in Coastal Virginia, 258-62
- Sturnus vulgaris*, and carpenter ants, 161-2
- , mimicry, 169(r)
- , weights and fat deposition, 289(r)
- , movements, 274-5
- stomach oil, 85(r)
- Survival Rates of Returned White-winged Juncos, 301-5
- survival, 119-22
- Sutton, G. M., Portraits of Mexican Birds, 175-6(rev)
- Swiftlet, see *Collocalia*
- Sylvia*, orientation, 77(r)
- S. atricapilla*, orientation, 370-1(r)
- S. borin*, magnetic compass, 78-9(r)
- , migration, 290(r)
- S. curruca*, migration, 283(r)
- Taeniopygia guttata*, aggressive behavior, 83(r)
- Tanager, Scarlet, see *Piranga olivacea*
- TAXONOMY, SYSTEMATICS
- chemotaxonomy, Anseriformes, 172(r)
- evolutionary and taxonomic relations, Black-eared and Pied Wheatears, 291(r)
- “owlet”, Sao Tome Island, 291(r)
- taxonomic differences in head movements, 123-8
- Taylor, W. K., Variations in the Black Mask of the Common Yellowthroat, 72-3
- Taylor, W. K., Migration of the Common Yellowthroat with an Emphasis on Florida, 319-32
- Teal, Blue-winged, see *Anas discors*
- Temple, S. A. and B. L. Temple, Avian Population Trends in Central New York State, 1935-1972, 238-57
- Tern, Common, see *Sterna hirundo*
- Tern, Least, see *S. albifrons*
- Tern, Roseate, see *S. dougallii*
- Tern, Sooty, see *S. fuscata*
- Tetrastes bonasia*, vocal strip census of males, 169(r)
- The Birds of Libya: An Annotated Check-list, 382-3(rev)
- The Birds of Manitoba, 179-80(rev)
- The Book of Owls, 92-3(rev)
- The Fiat Book of Common Birds in New Zealand. I. Town, pasture, and freshwater birds, 383(rev)
- The Life of Birds, 88-9(rev)
- The Wheatears of Northern Palaearctic, 298(rev)
- Thompson, E. E., The Birds of Manitoba, 179-80(rev)
- Thurber, W. A., and A. Villeda C., Band Returns in El Salvador, 1973-74 and 1974-75 Seasons, 277-8
- Thryomanes bewickii*, song learning, dialects, and dispersal, 173(r)
- Tit, Great, see *Parus major*
- Tit, Varied, see *P. varius*
- To Save a Bird in Peril, 93-4(rev)
- To the Arctic by Canoe, 1819-1821. The Journal and Paintings of Robert Hood, Midshipman with Franklin, 178-9(rev)
- Trapping and marking, 1-7
- Tringa flavipes*, age determination, 201-9
- T. melanoleuca*, age determination, 201-9
- Tull, C. F., see Brown, R. G. B., D. N. Nettleship, P. Germain, T. Davis and-
- Turdus merula*, resting metabolic rate, 289(r)
- T. migratorius*, anting, 73
- Turnstone, Ruddy, see *Arenaria interpres*
- Turnstone, Black, see *A. melanocephala*
- Tyto alba*, predation, 375(r)
- Vanellus vanellus*, breeding, 284(r)
- Vermivora celata*, aging, 365
- Villeda, Amand, C., see Thurber, W. A. and-
- Vireo, Red-eyed, see *Vireo olivaceus*
- Vireo olivaceus*, 366-7
- VOCALIZATIONS
- acoustic signals, Common Tern, 173(r)
- auditory stimulation, Japanese Quail, 82(r)
- behavior and vocalization, Jungle Crow, 169(r)
- defensive calls, Black-headed Gull, 81(r)
- duetting, Robin Chats, 173(r)
- hatching, Japanese Quail, 82(r)

- intermediate calls, Crested Lark, 173(r)
 song in display, 378(r)
 song learning, Bewick's Wren, 173(r)
 sounds, migrating birds, 166(r)
 Neotropical birds, 173-4(r)
 vocal strip census, Hazel Hen, 169(r)
- Walker, L. W., The Book of Owls, 92-3(rev)
- Warbler, Bay-breasted, see *Dendroica castanea*
- Warbler, Garden, see *Sylvia borin*
- Warbler, Orange-crowned, see *Vermivora celata*
- Warbler, Reed, see *Acrocephalus scirpaceus*
- Warbler, Swainson's, see *Lymnolthypis swainsonii*
- Watching Birds, 94(rev)
- Watson, G. E., Birds of the Antarctic and Sub-Antarctic, 176-7(rev)
- WEIGHTS
 egg, Snow Goose, 79(r)
 Starling, 289(r)
- Welty, J. C., The Life of Birds, 88-9(rev)
- Weske, J. S. and D. Bridge, An Age Record for Swainson's Warbler, 277
- Wheatear, Black-eared, see *Oenanthe hispanica*
- Wheatear, Pied, see *O. pleschanka*
- Whimbrel, see *Numenius phaeopus*
- White, S. C., see Woolfenden, G. E. and-
- White, S. C., W. B. Robertson, Jr., and R. E. Ricklefs, The Effect of Hurricane Agnes on Growth and Survival of Tern Chicks in Florida, 54-71
- Whitney, N. R., see Baylor, L. M. and-Whitethroat, Lesser, see *Sylvia curruca*
- Willet, see *Cataptrophorus semipalmatus*
- Winterlife and food, 169(r)
 Wonders of Sea Gulls, 298-9(rev)
 Wonders of the Pelican World, 298(rev)
- Wood, M., Birds of Central Pennsylvania, 198(rev)
- Woodpecker, Downy, see *Dendrocopos pubescens*
- Woodpecker, Hairy, see *D. villosus*
- Woodpecker, Pileated, see *Dryocopus pileatus*
- Woodpecker, Red-headed, see *Melanerpes erythrocephalus*
- Woolfenden, G. E., S. C. White, R. L. Mumme, and W. B. Robertson, Jr., Aggression Among Starving Cattle Egrets, 48-53
- Wright, M. E., see Milby, M. M. and-Yakobi, V. E., Biological Fundamentals of Averting Avian Plane Strikes, 296-7(rev)
- Yakutiya, 167(r)
- Yellowlegs, Greater, see *Tringa melanoleuca*
- Yellowlegs, Lesser, see *T. flavipes*
- Yellowthroat, Common, see *Geothlypis trichas*
- Yumick, R. P., Mourning Dove Recovered in Labrador, 72
- , Rate of Rectrix Regrowth in the Dark-eyed Junco, 136-40
- , Delayed Molt in the Pine Siskin, 306-9
- , Incomplete Prebasic Molt in a Dark-eyed Junco, 276-7
- Zenaida macroura*, in Labrador, 72
- Zimmerman, D. R., To Save a Bird in Peril, 93-4(rev)
- ZOOGEOGRAPHY AND
 DISTRIBUTION, RANGE
- Ferruginous Hawk, 287-8(r)
- , ZOOGEOGRAPHY
- Central Pennsylvania, 298(rev)
- Libya, 382-3(rev)
- New Zealand, 383(rev)
- Northern Palaearctic, Wheatear, 298(rev)
- Red-breasted Goose, 377(r)
- scarce migrant birds, 296(rev)
- South Primor, 297-8(rev)
- United States and Canada, 383(rev)